Figure S1 Sheet 1 of 47

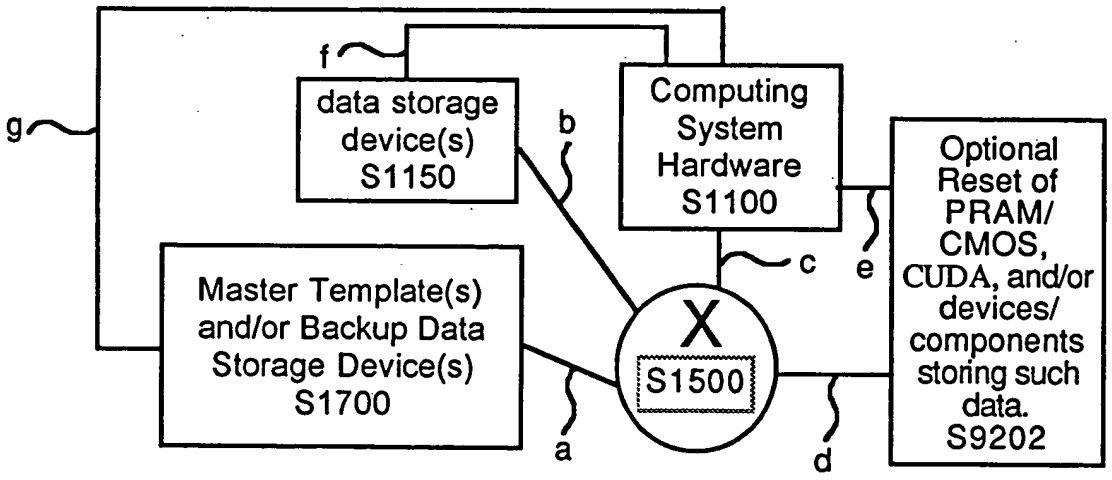


Figure S2

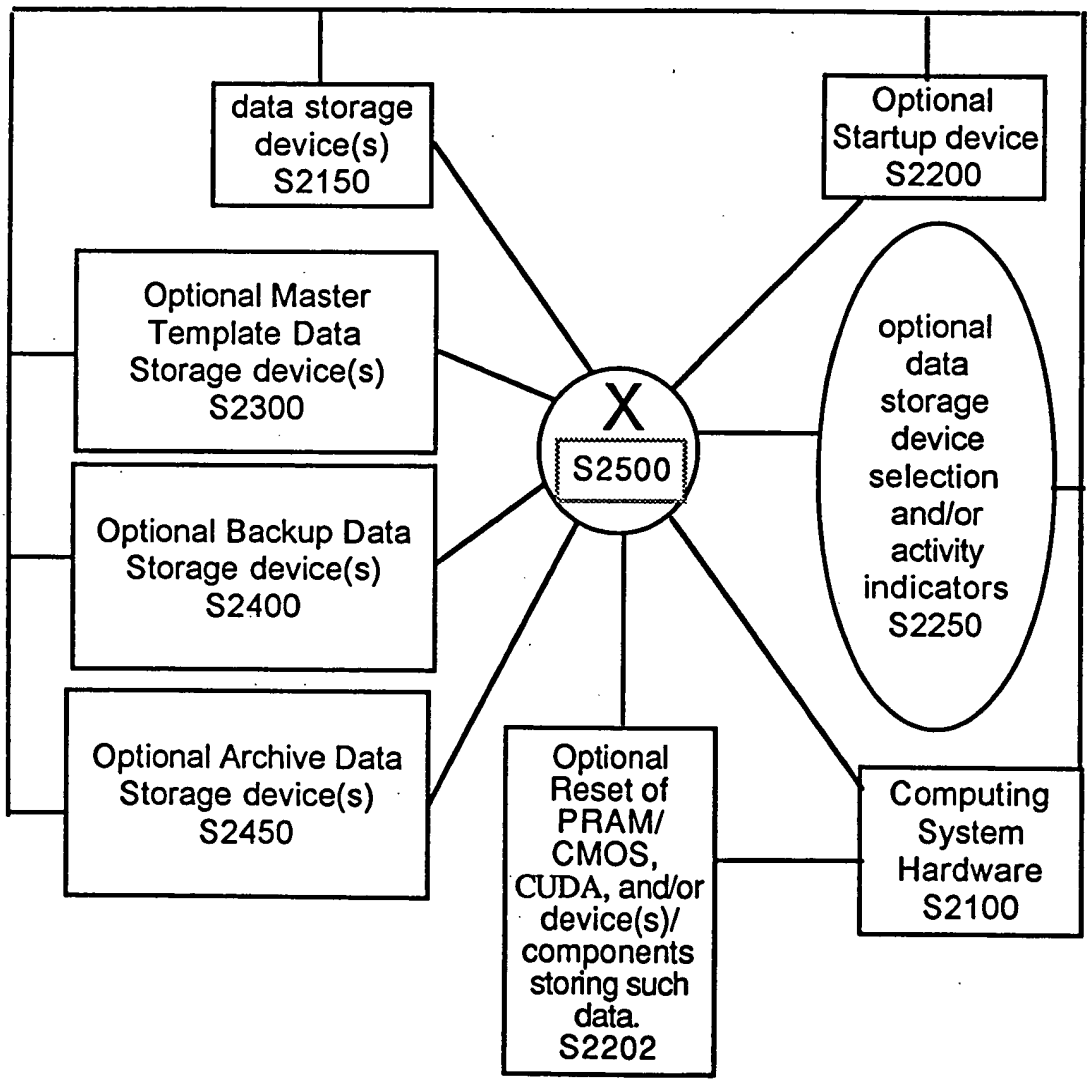

data storage device(s) S2150
Optional Startup device S2200
Optional Master Template Data Storage device(s) S2300
X
S2500
optional data storage device selection and/or activity indicators S2250
Optional Backup Data Storage device(s) S2400
Optional Archive Data Storage device(s) S2450
Optional Reset of PRAM/ CMOS, CUDA, and/or device(s)/ components storing such data. S2202
Computing System Hardware S2100

Figure S3

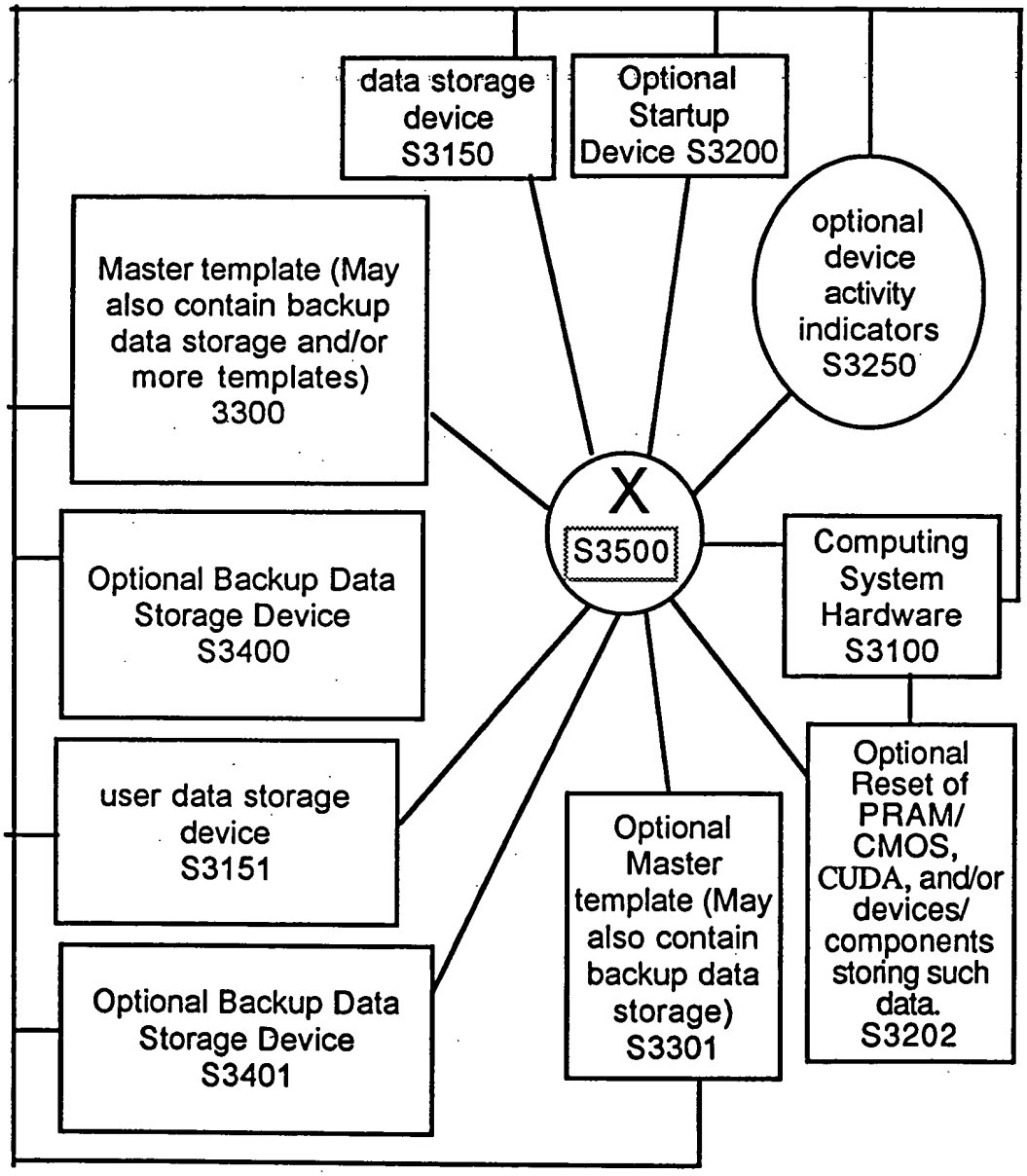
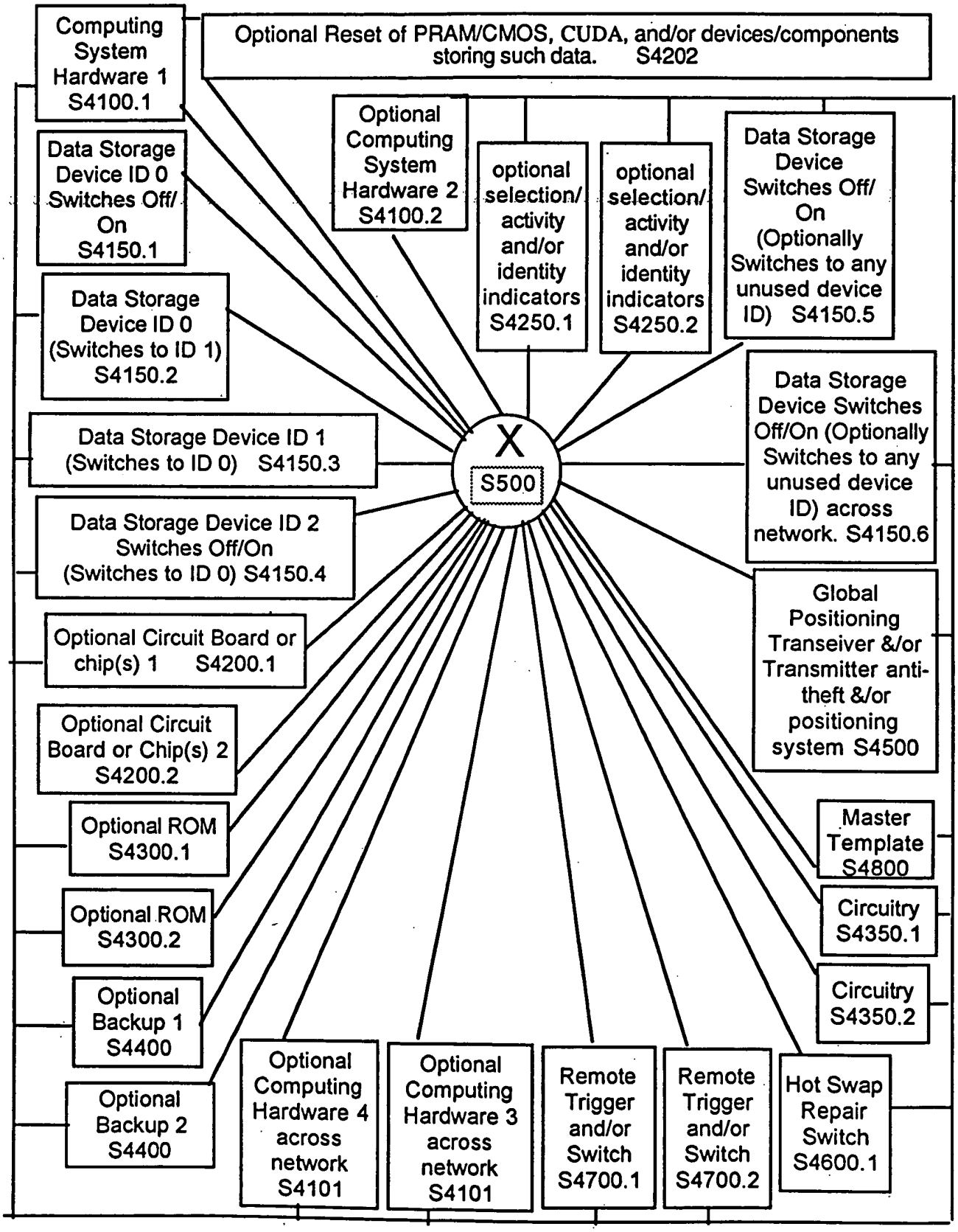

data storage device S3150
Optional Startup Device S3200
optional device activity indicators S3250
Master template (May also contain backup data storage and/or more templates) 3300
X
S3500
Optional Backup Data Storage Device S3400
Computing System Hardware S3100
user data storage device S3151
Optional Master template (May also contain backup data storage) S3301
Optional Reset of PRAM/ CMOS, CUDA, and/or devices/ components storing such data. S3202
Optional Backup Data Storage Device S3401

Figure S4


Computing System Hardware 1 S4100.1
Optional Reset of PRAM/CMOS, CUDA, and/or devices/components storing such data. S4202
Optional Computing System Hardware 2 S4100.2
optional selection/ activity and/or identity indicators S4250.1
optional selection/ activity and/or identity indicators S4250.2
Data Storage Device Switches Off/ On (Optionally Switches to any unused device ID) S4150.5
Data Storage Device ID 0 Switches Off/ On S4150.1
Data Storage Device ID 0 (Switches to ID 1) S4150.2
Data Storage Device ID 1 (Switches to ID 0) S4150.3
X
S500
Data Storage Device Switches Off/On (Optionally Switches to any unused device ID) across network. S4150.6
Data Storage Device ID 2 Switches Off/On (Switches to ID 0) S4150.4
Global Positioning Transeiver &/or Transmitter anti-theft &/or positioning system S4500
Optional Circuit Board or chip(s) 1 S4200.1
Optional Circuit Board or Chip(s) 2 S4200.2
Master Template S4800
Optional ROM S4300.1
Optional ROM S4300.2
Circuitry S4350.1
Circuitry S4350.2
Optional Backup 1 S4400
Optional Backup 2 S4400
Optional Computing Hardware 4 across network S4101
Optional Computing Hardware 3 across network S4101
Remote Trigger and/or Switch S4700.1
Remote Trigger and/or Switch S4700.2
Hot Swap Repair Switch S4600.1

Sheet of

Figure S5

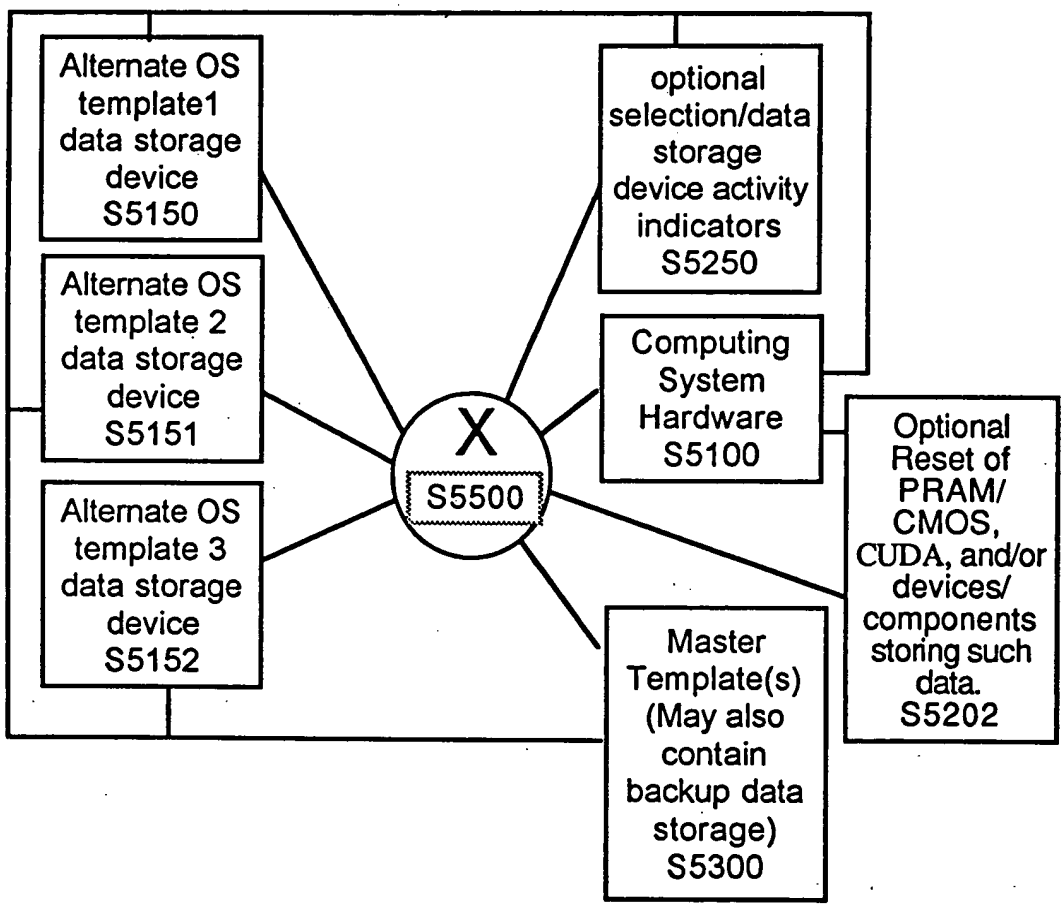


Figure S6

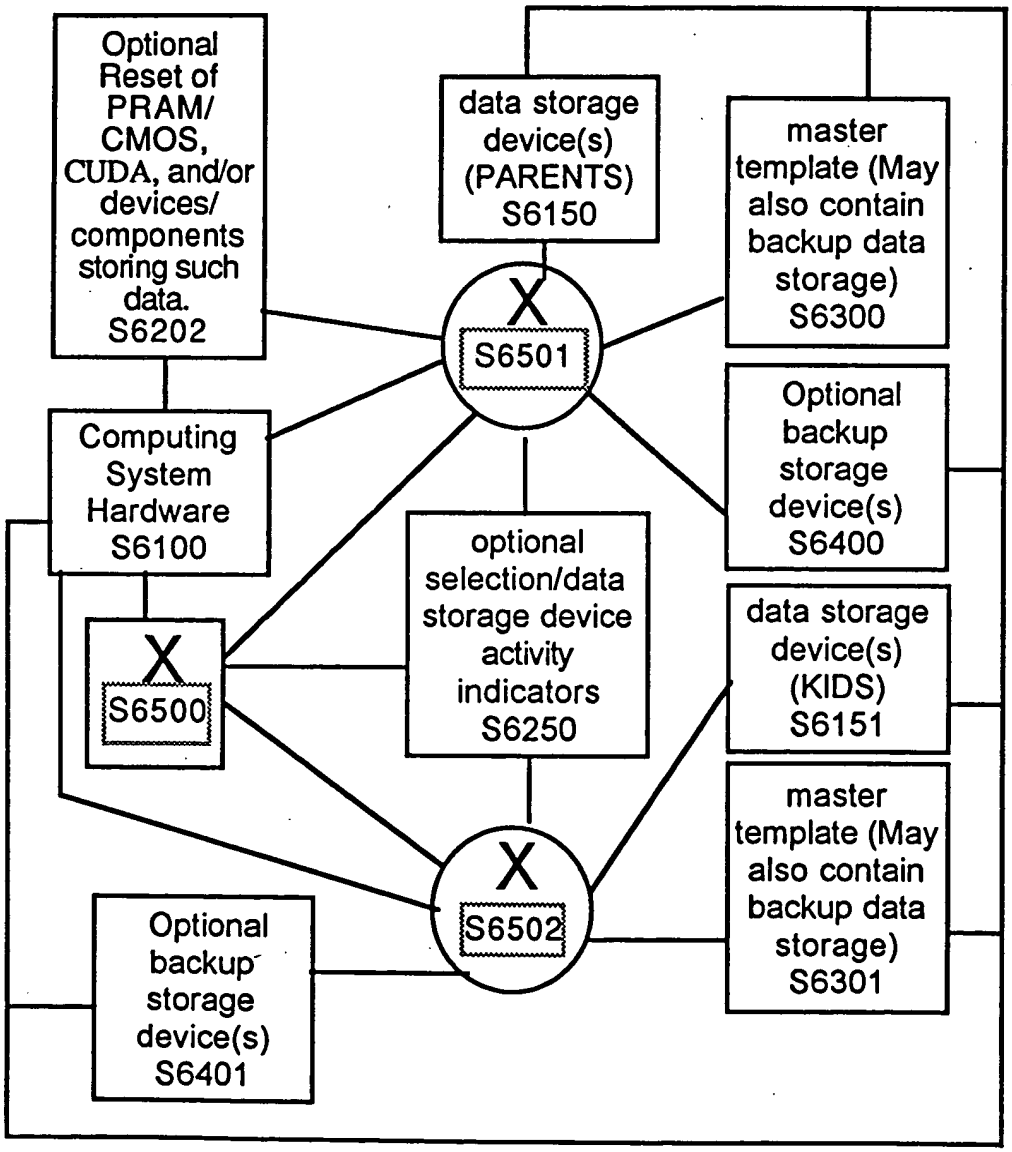

Optional Reset of PRAM/ CMOS, CUDA, and/or devices/ components storing such data. S6202
data storage device(s) (PARENTS) S6150
master template (May also contain backup data storage) S6300
X
S6501
Computing System Hardware S6100
Optional backup storage device(s) S6400
optional selection/data storage device activity indicators S6250
X
S6500
data storage device(s) (KIDS) S6151
master template (May also contain backup data storage) S6301
X
S6502
Optional backup storage device(s) S6401

Figure S7

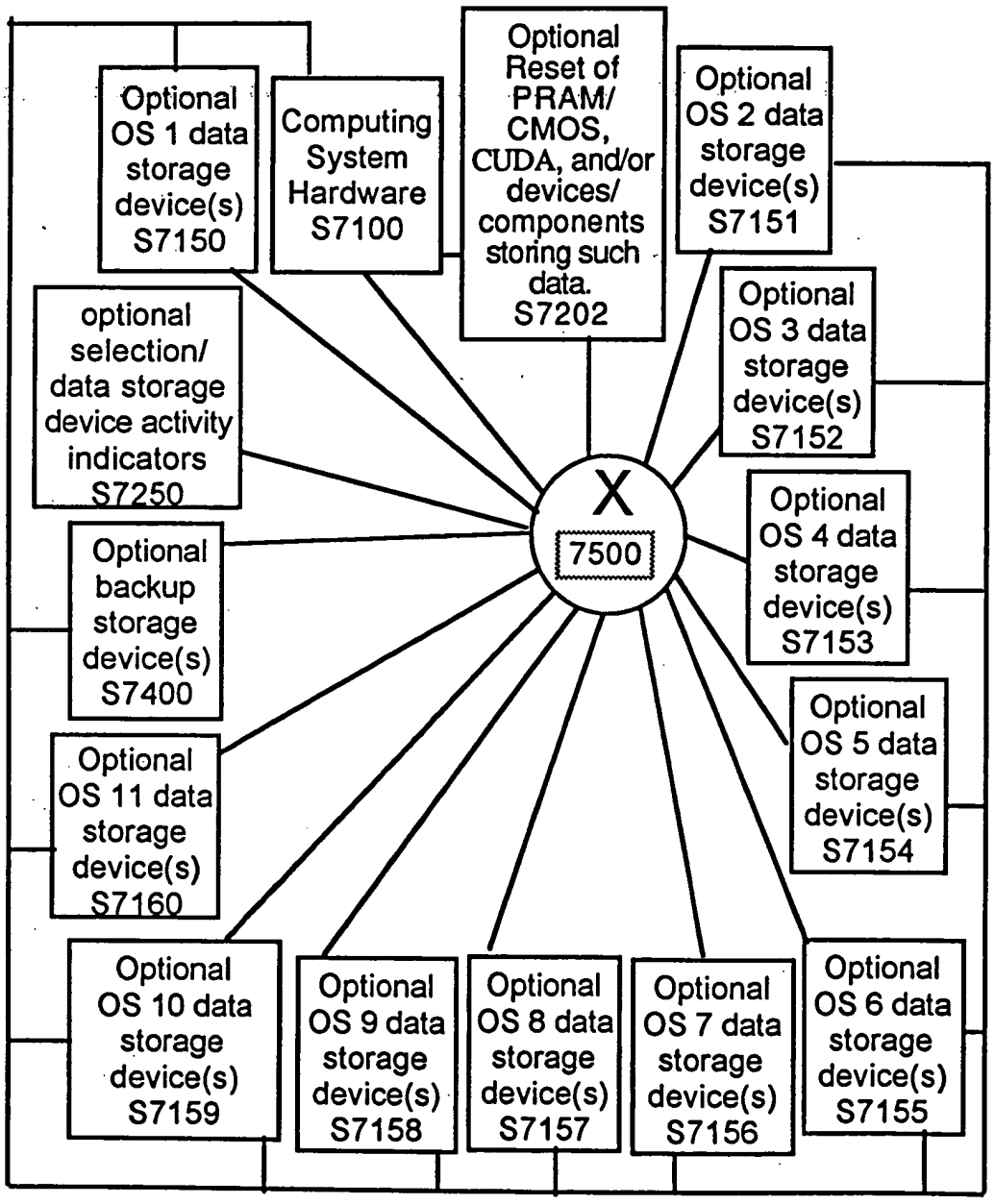

Optional OS 1 data storage device(s) S7150
Computing System Hardware S7100
Optional Reset of PRAM/ CMOS, CUDA, and/or devices/ components storing such data. S7202
Optional OS 2 data storage device(s) S7151
optional selection/ data storage device activity indicators S7250
Optional OS 3 data storage device(s) S7152
X
7500
Optional OS 4 data storage device(s) S7153
Optional backup storage device(s) S7400
Optional OS 5 data storage device(s) S7154
Optional OS 11 data storage device(s) S7160
Optional OS 10 data storage device(s) S7159
Optional OS 9 data storage device(s) S7158
Optional OS 8 data storage device(s) S7157
Optional OS 7 data storage device(s) S7156
Optional OS 6 data storage device(s) S7155

Figure S8

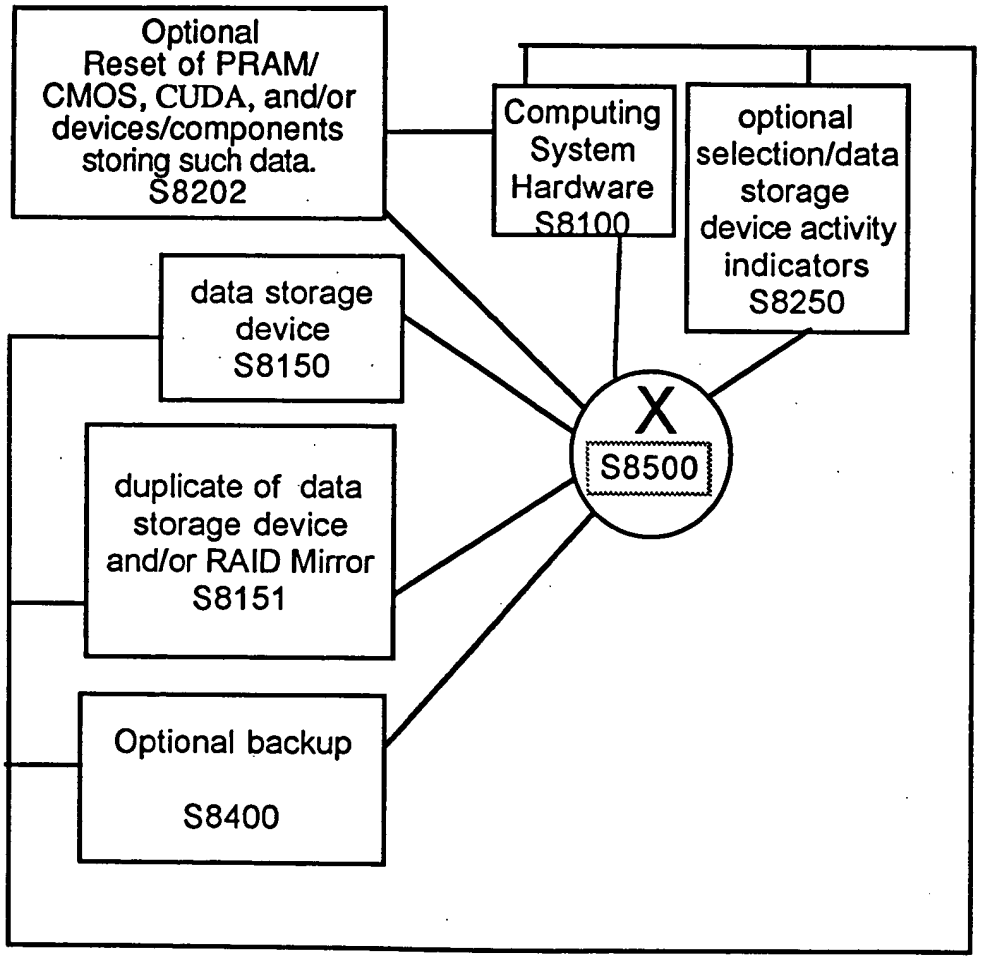

Optional
Reset of PRAM/
CMOS, CUDA, and/or
devices/components
storing such data.
S8202
Computing
System
Hardware
S8100
optional
selection/data
storage
device activity
indicators
S8250
data storage
device
S8150
X
S8500
duplicate of data
storage device
and/or RAID Mirror
S8151
Optional backup
S8400

Figure S9

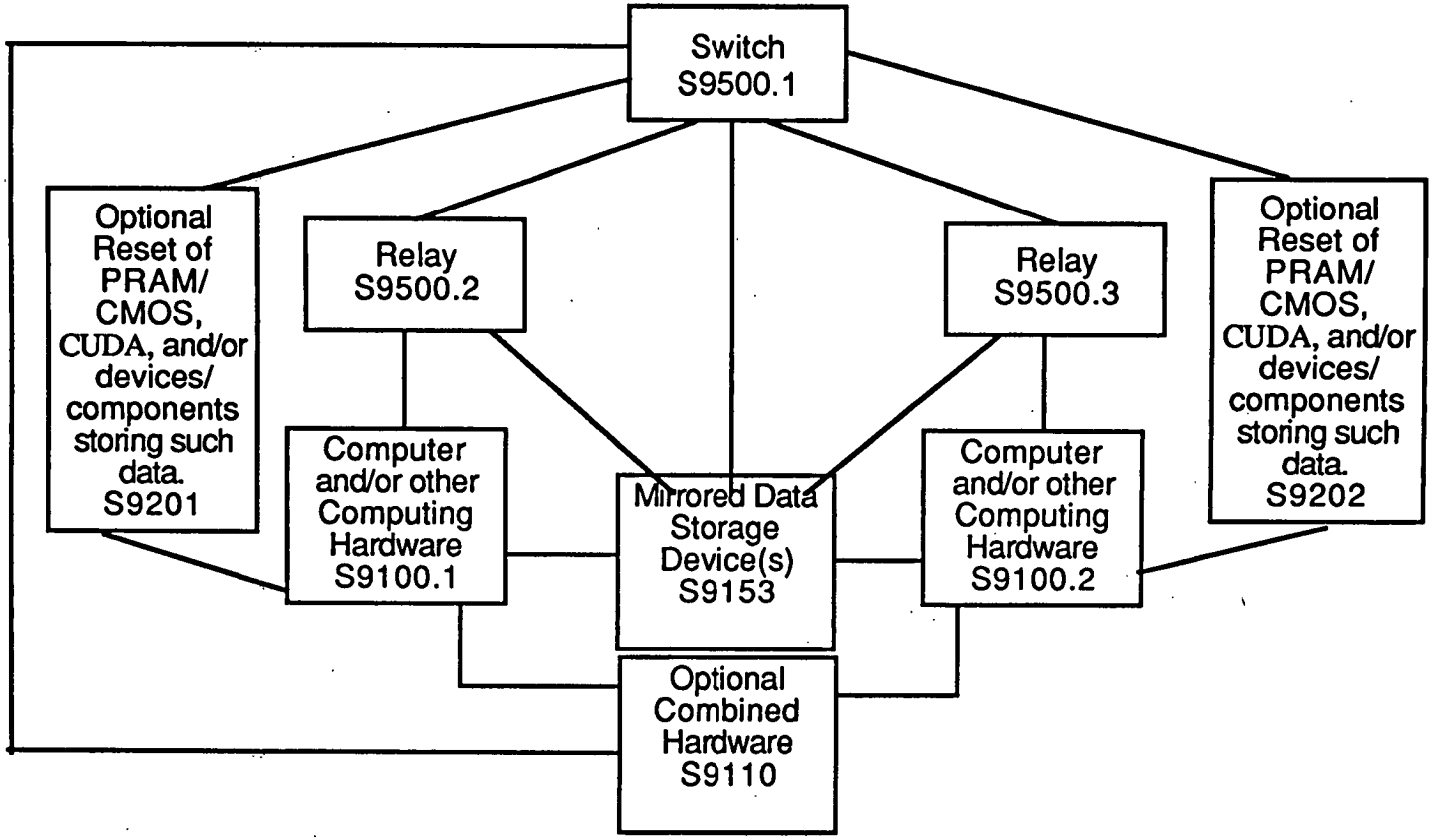

Switch
S9500.1
Optional
Reset of
PRAM/
CMOS,
CUDA, and/or
devices/
components
storing such
data.
S9201
Relay
S9500.2
Relay
S9500.3
Optional
Reset of
PRAM/
CMOS,
CUDA, and/or
devices/
components
storing such
data.
S9202
Computer
and/or other
Computing
Hardware
S9100.1
Mirrored Data
Storage
Device(s)
S9153
Computer
and/or other
Computing
Hardware
S9100.2
Optional
Combined
Hardware
S9110

Figure S10

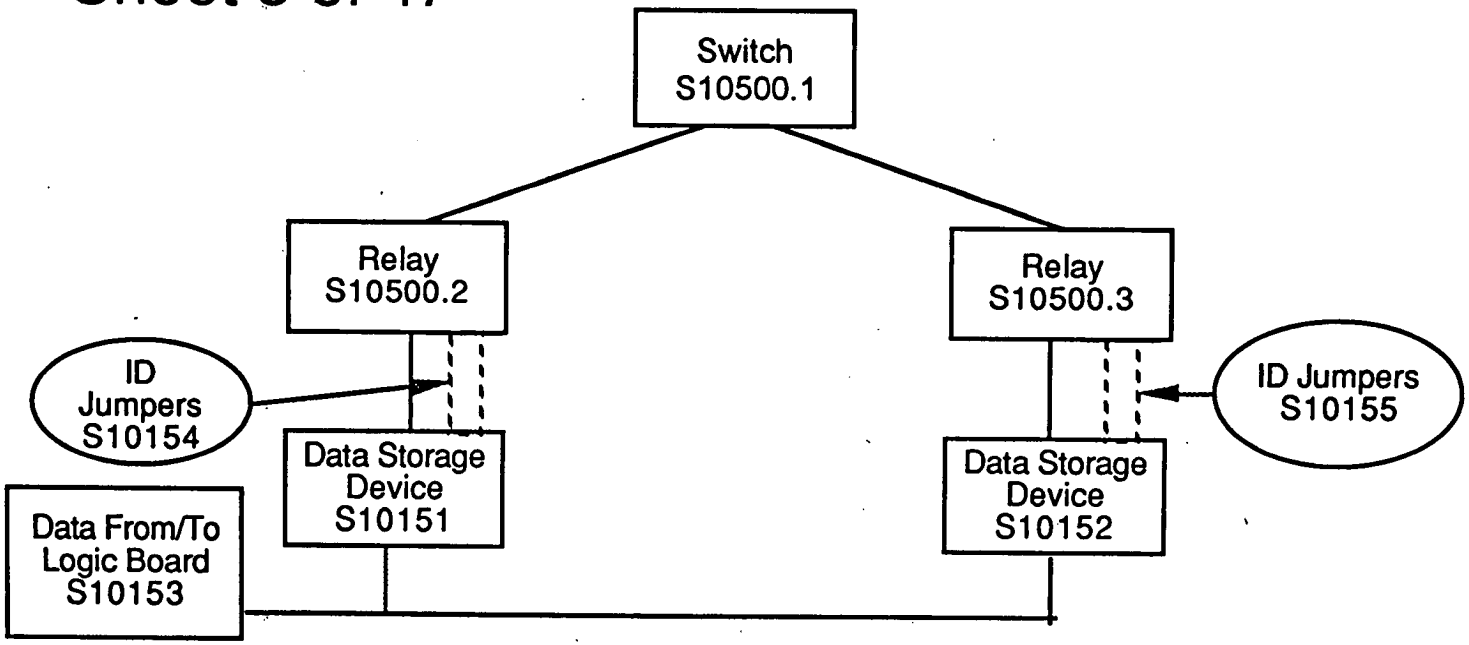

Switch
S10500.1
Relay
S10500.2
Relay
S10500.3
ID
Jumpers
S10154
ID Jumpers
S10155
Data Storage
Device
S10151
Data Storage
Device
S10152
Data From/To
Logic Board
S10153

Figure S11
Switching Process with dual computing devices

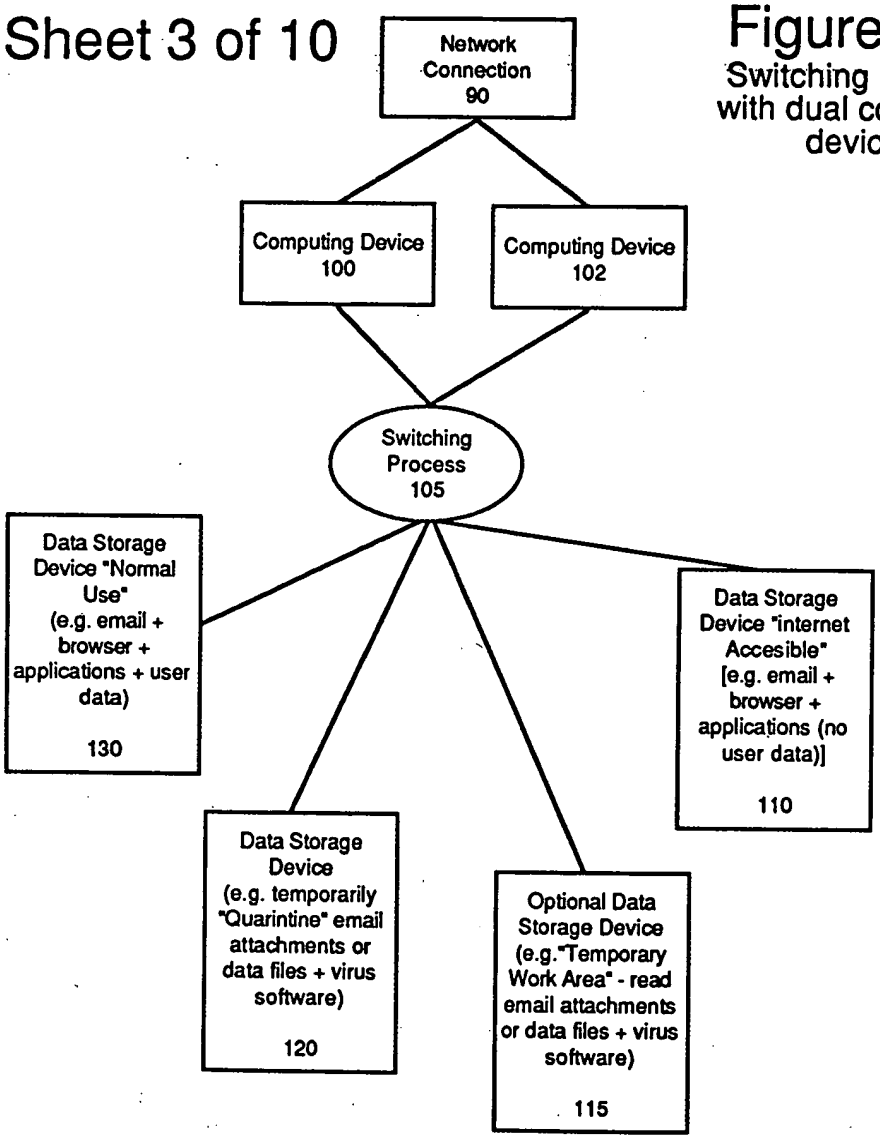


Figure S12 Sheet 13 of 47

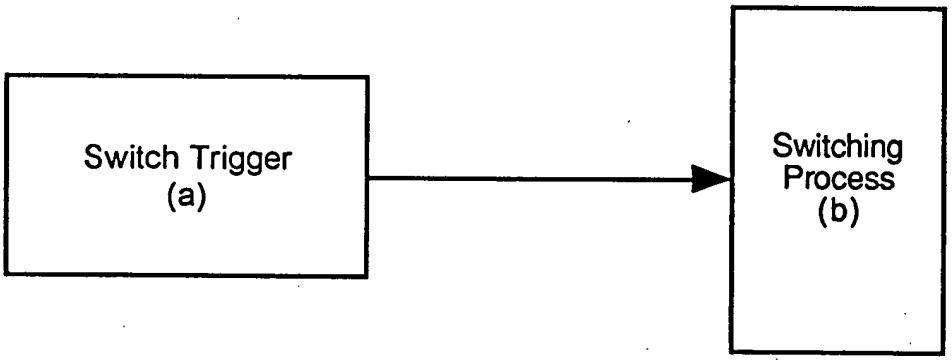
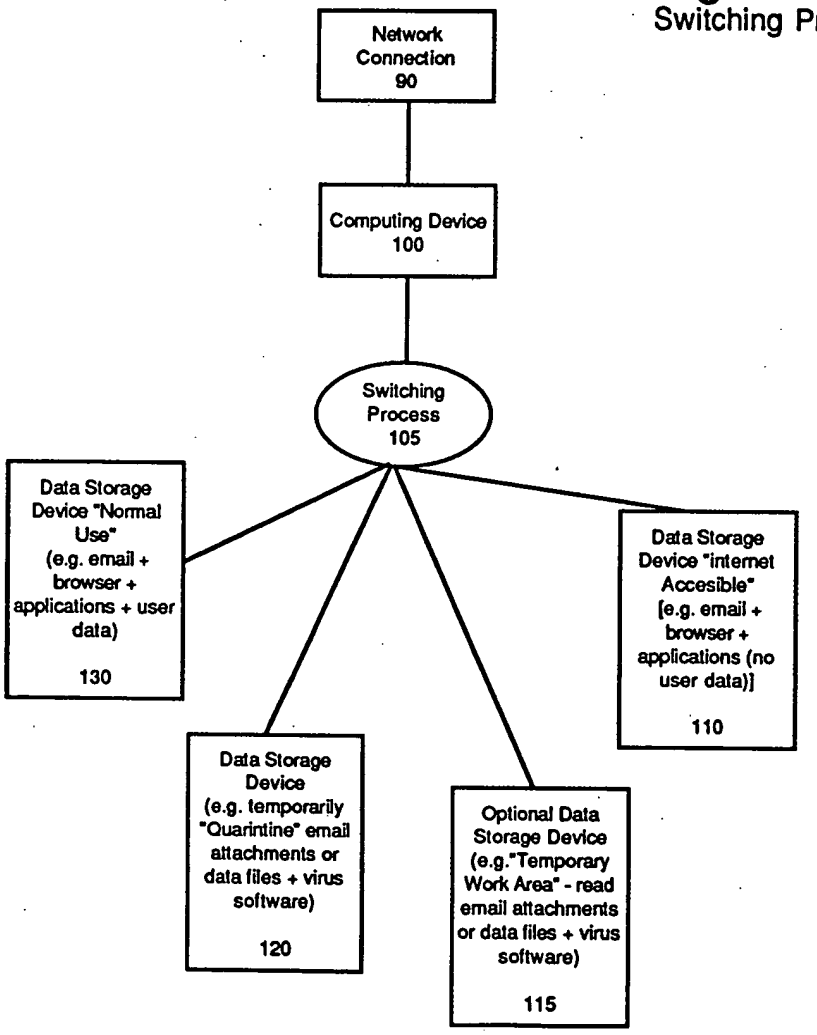
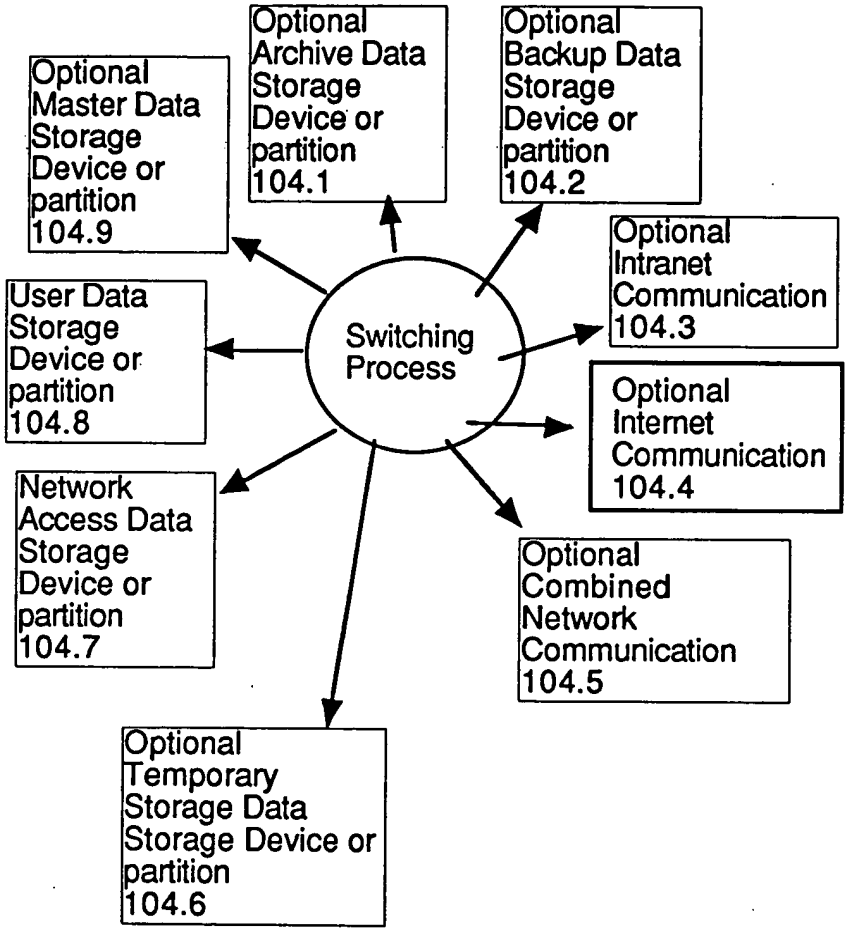


Figure S13
Switching Process



Sheet 4 of 10 Figure S14



Hacking and Virus Proof Computing Device 104.10

Figure S18 Sheet of

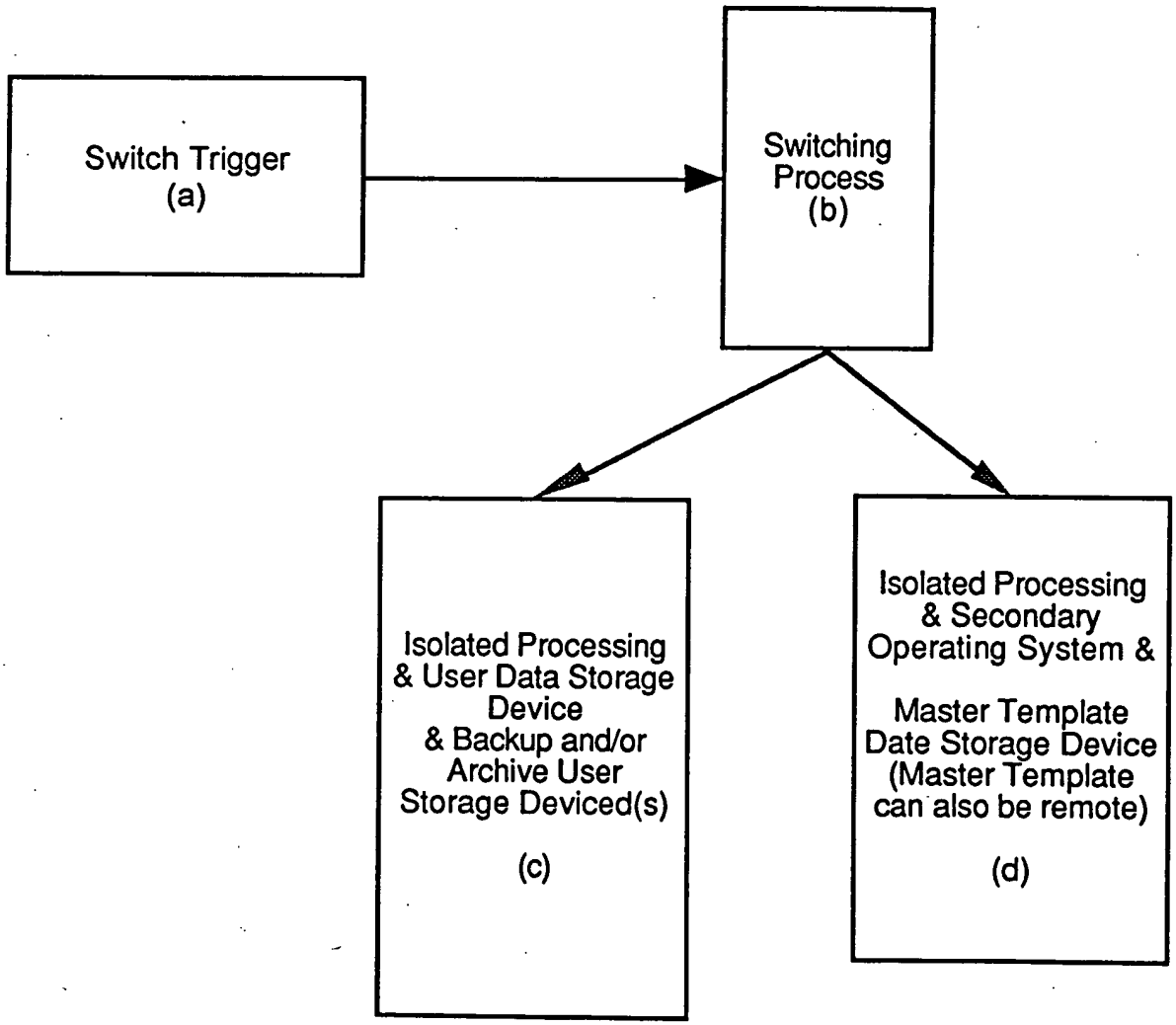


Figure S19

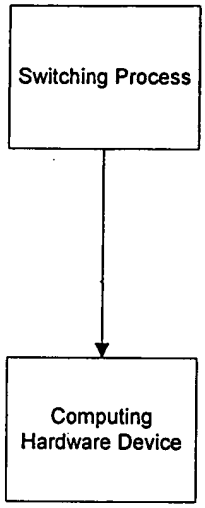


Figure S20

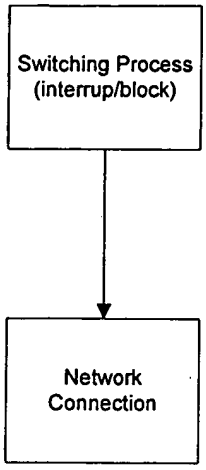


Figure S21

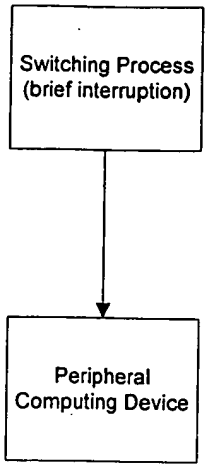

Switching Process
(brief interruption)
Peripheral
Computing Device

Figure S22 Anti-Virus with shared computing device

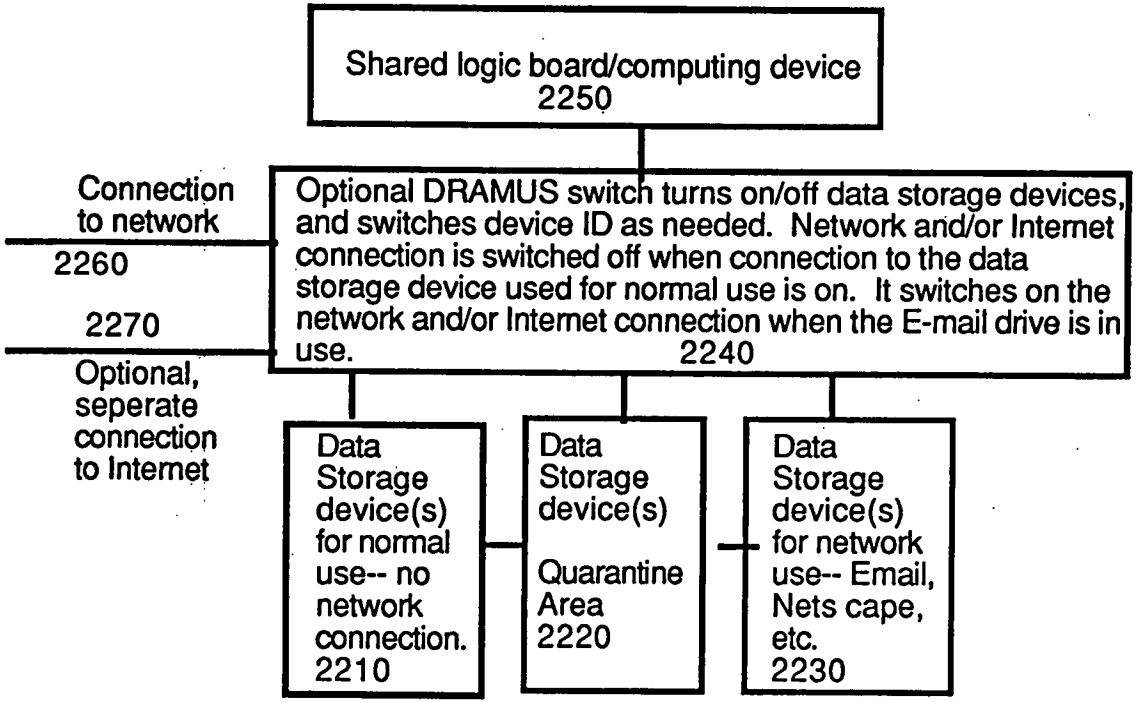


FIGURE S23

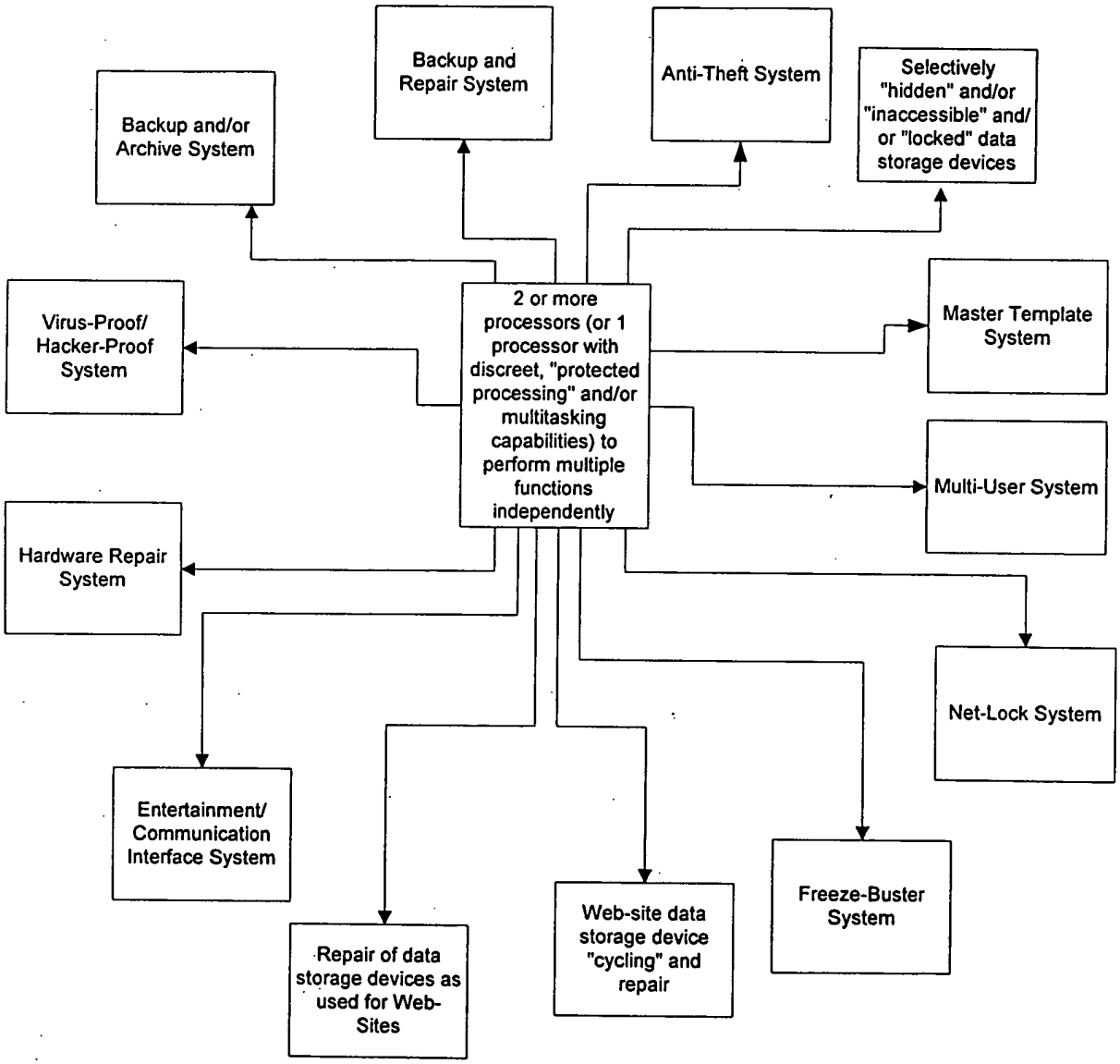

Backup and/or Archive System
Backup and Repair System
Anti-Theft System
Selectively "hidden" and/or "inaccessible" and/ or "locked" data storage devices
Virus-Proof/ Hacker-Proof System
2 or more processors (or 1 processor with discreet, "protected processing" and/or multitasking capabilities) to perform multiple functions independently
Master Template System
Multi-User System
Hardware Repair System
Net-Lock System
Entertainment/ Communication Interface System
Repair of data storage devices as used for Web-Sites
Web-site data storage device "cycling" and repair
Freeze-Buster System

Figure F20
Multi user

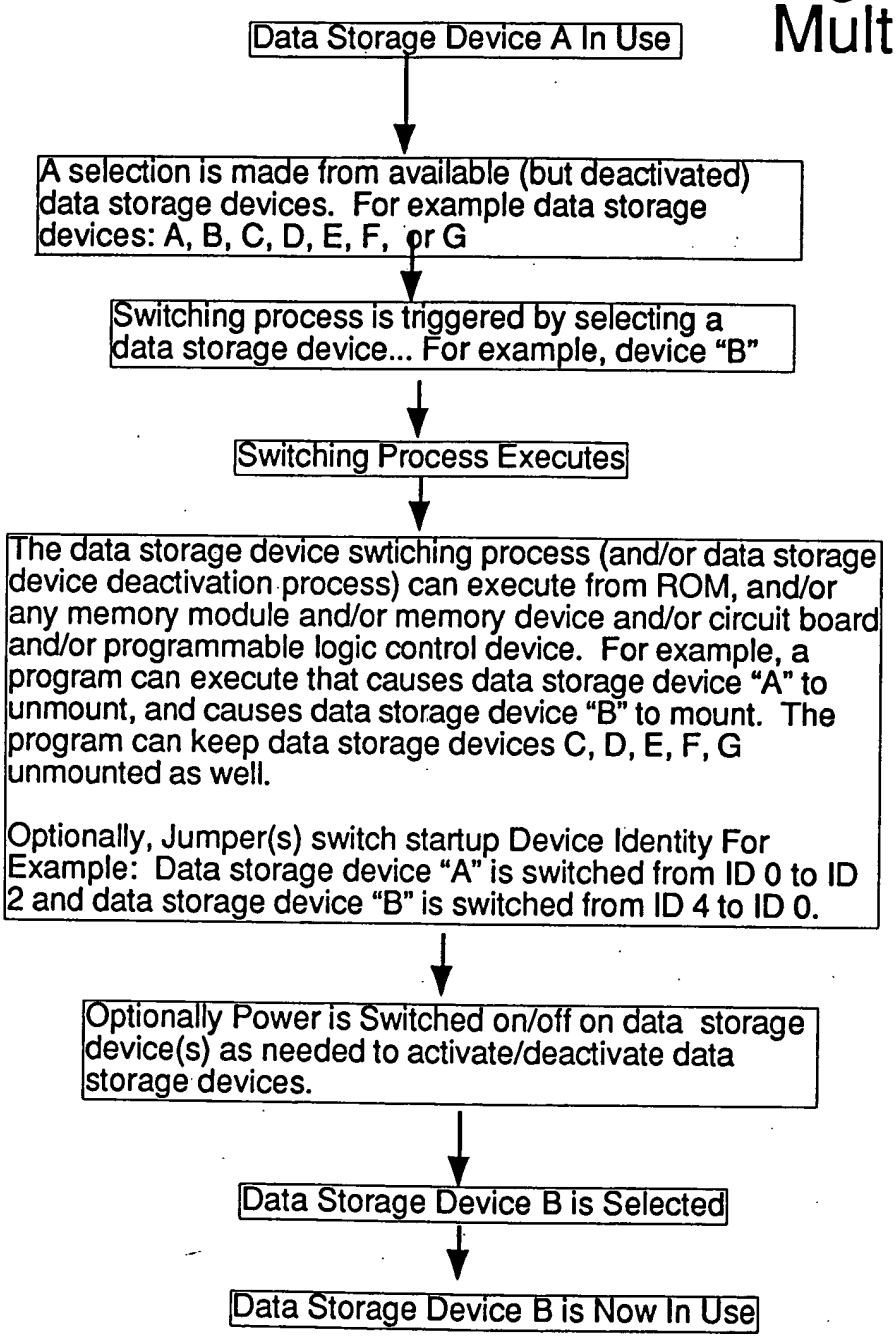


Figure F31

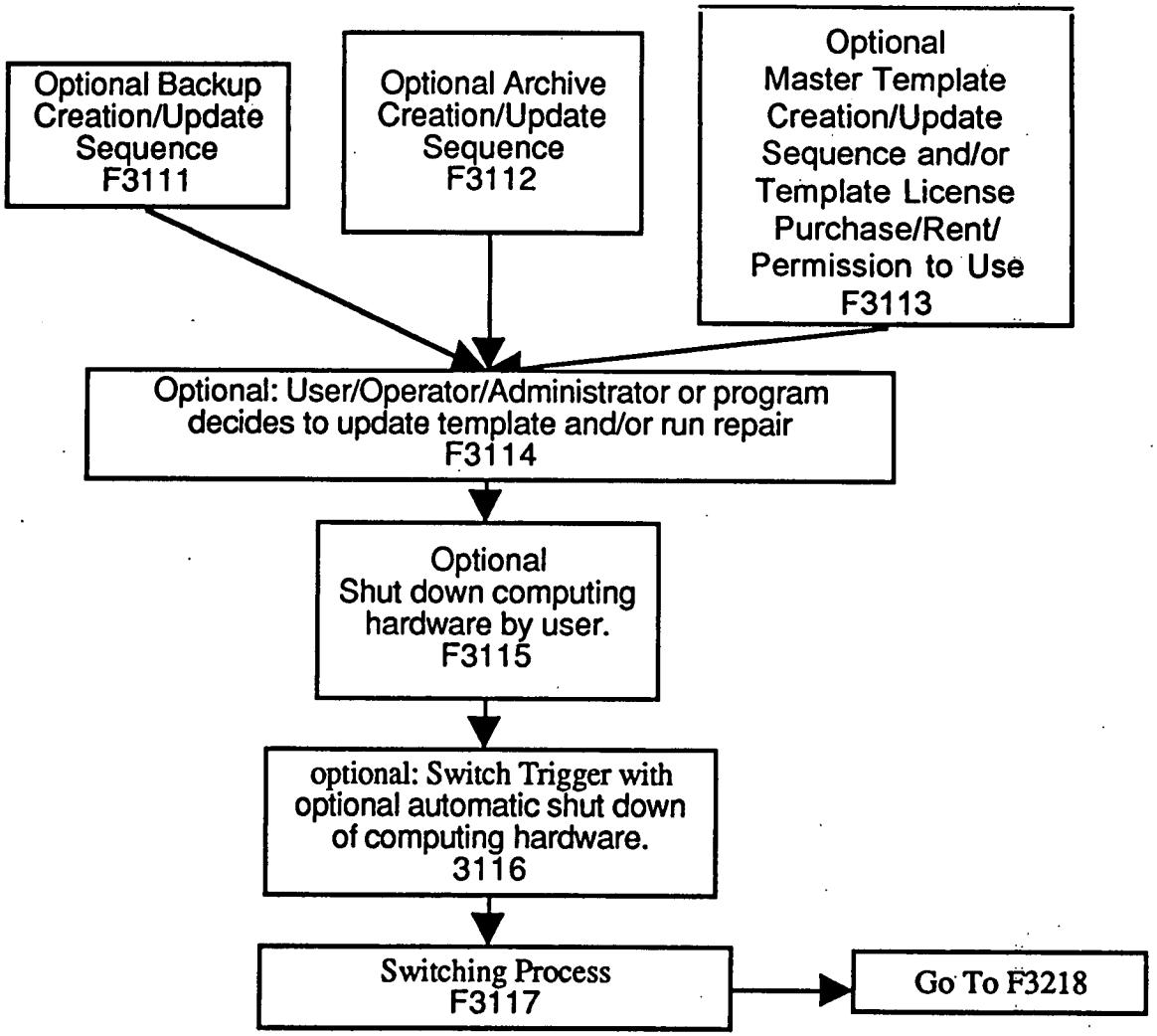

Optional Backup Creation/Update Sequence F3111
Optional Archive Creation/Update Sequence F3112
Optional Master Template Creation/Update Sequence and/or Template License Purchase/Rent/ Permission to Use F3113
Optional: User/Operator/Administrator or program decides to update template and/or run repair F3114
Optional Shut down computing hardware by user. F3115
optional: Switch Trigger with optional automatic shut down of computing hardware. 3116
Switching Process F3117
Go To F3218

Figure F32 Sheet 15 of 47

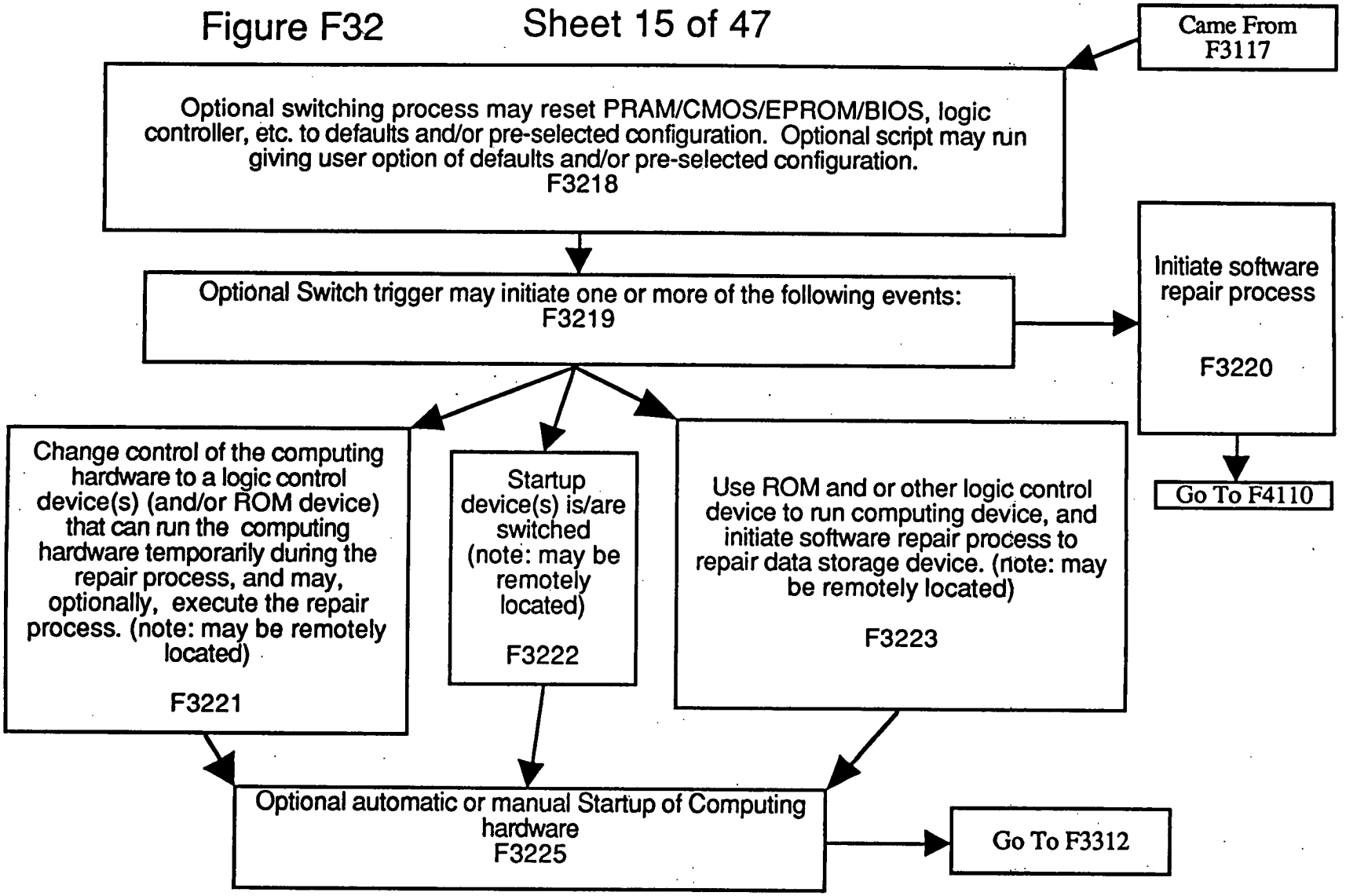


Figure F33

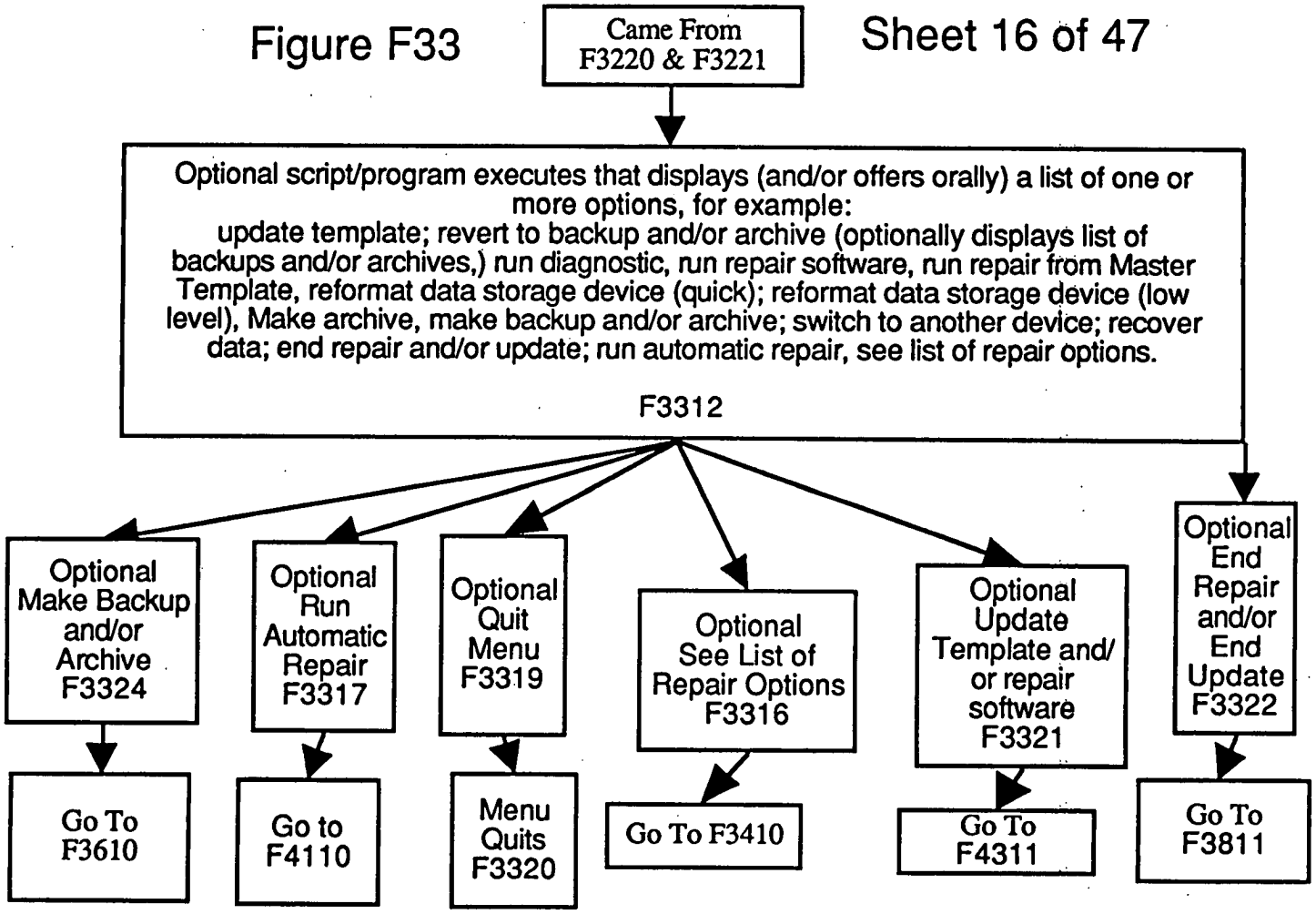

Came From F3220 & F3221
Optional script/program executes that displays (and/or offers orally) a list of one or more options, for example:
update template; revert to backup and/or archive (optionally displays list of backups and/or archives,) run diagnostic, run repair software, run repair from Master Template, reformat data storage device (quick); reformat data storage device (low level), Make archive, make backup and/or archive; switch to another device; recover data; end repair and/or update; run automatic repair, see list of repair options.
F3312
Optional Make Backup and/or Archive F3324
Optional Run Automatic Repair F3317
Optional Quit Menu F3319
Optional See List of Repair Options F3316
Optional Update Template and/ or repair software F3321
Optional End Repair and/or End Update F3322
Go To F3610
Go to F4110
Menu Quits F3320
Go To F3410
Go To F4311
Go To F3811

Figure F34

Sheet 17 of 47

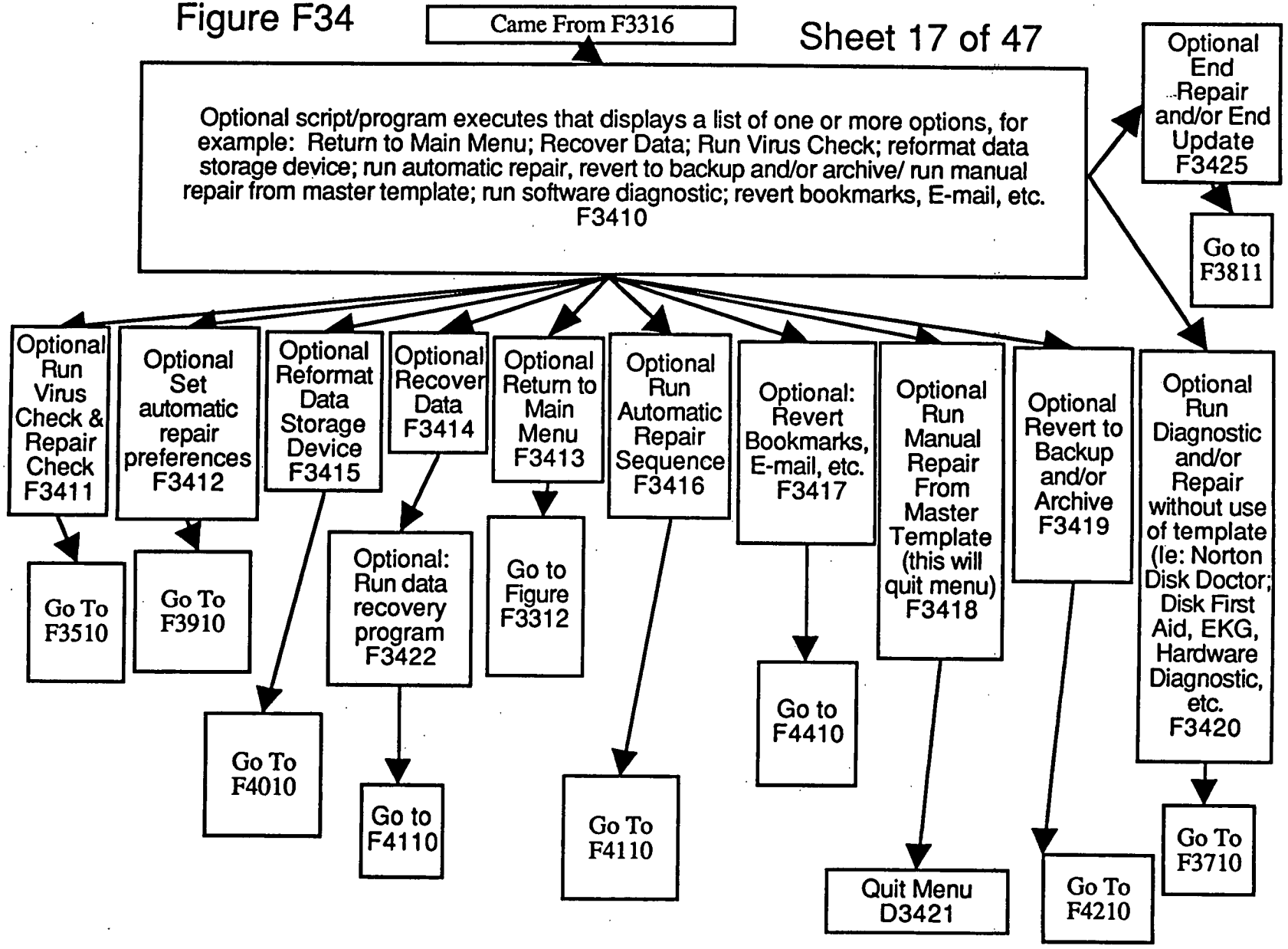


Figure F35

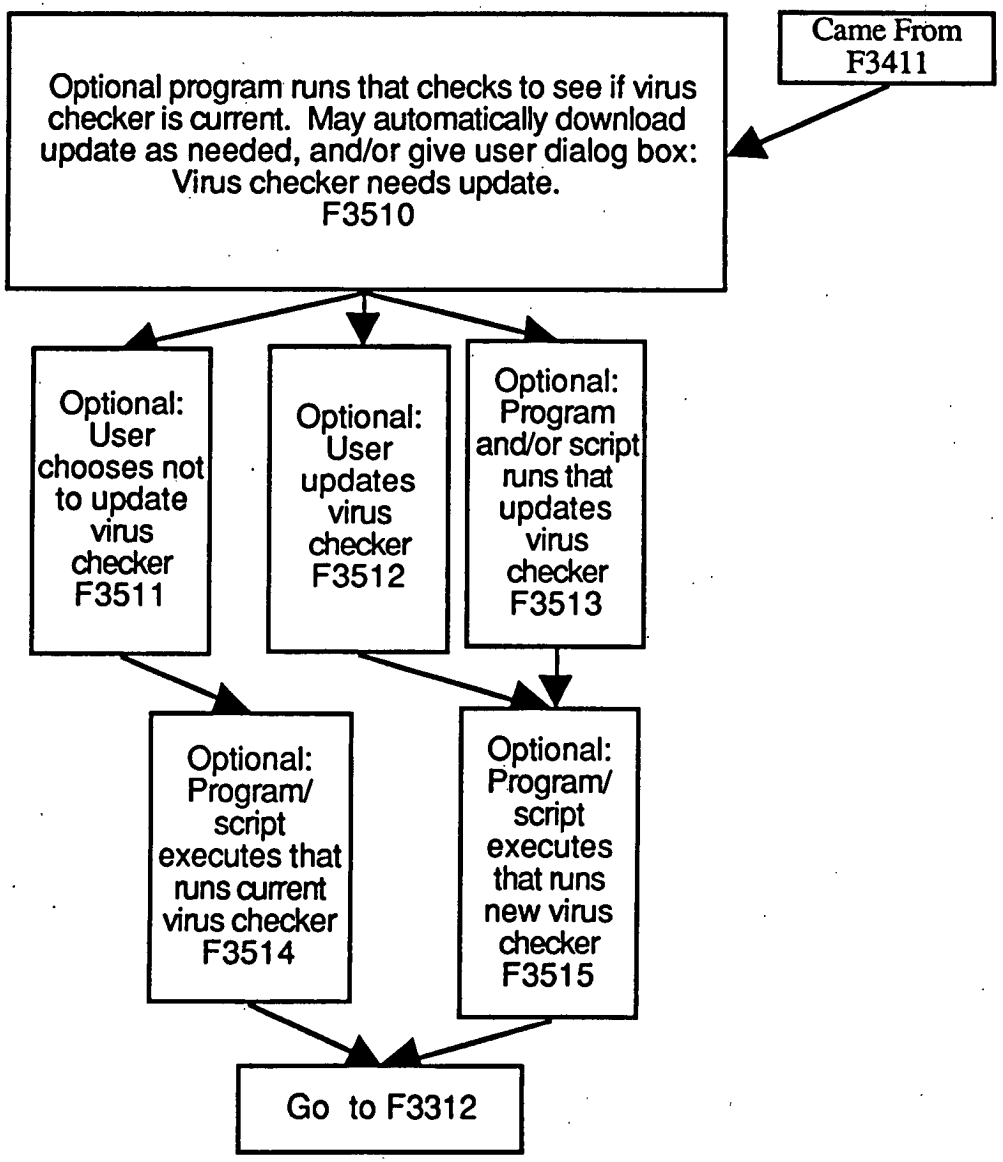

Came From F3411
Optional program runs that checks to see if virus checker is current. May automatically download update as needed, and/or give user dialog box: Virus checker needs update. F3510
Optional: User chooses not to update virus checker F3511
Optional: User updates virus checker F3512
Optional: Program and/or script runs that updates virus checker F3513
Optional: Program/ script executes that runs current virus checker F3514
Optional: Program/ script executes that runs new virus checker F3515
Go to F3312

Figure F36

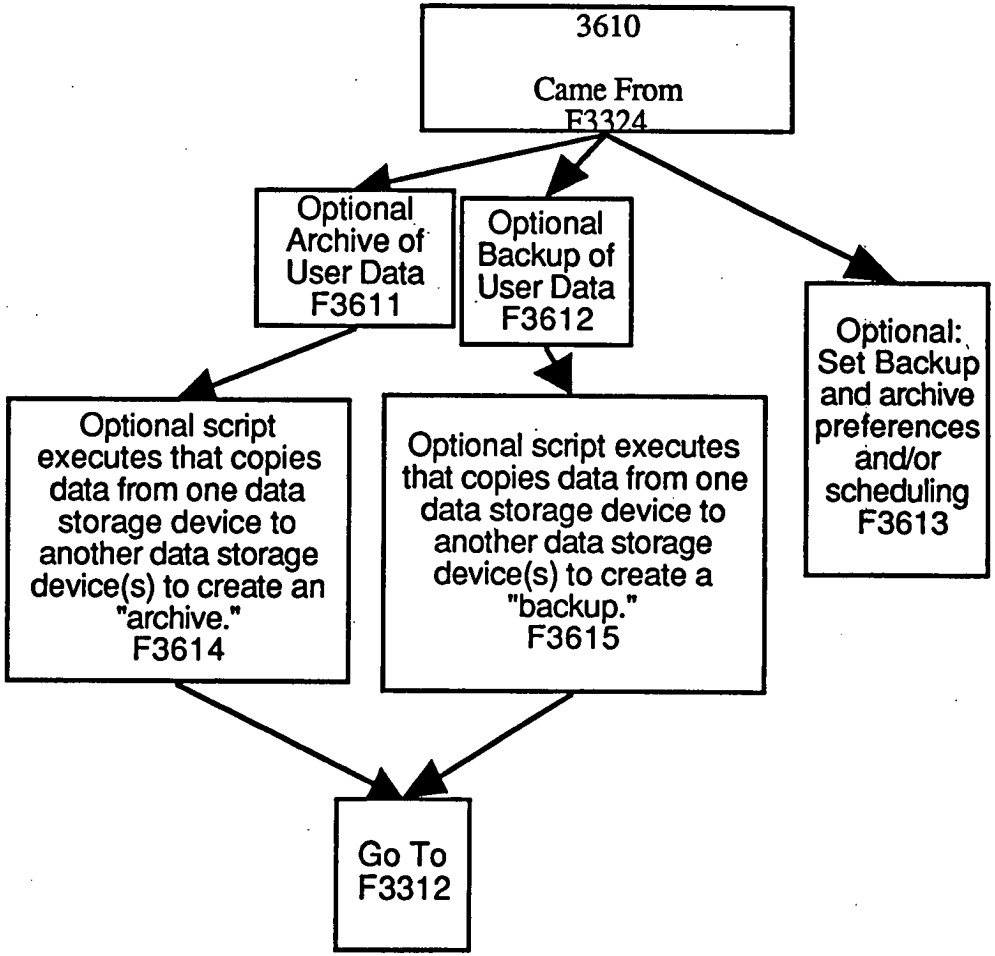

3610
Came From F3324
Optional Archive of User Data F3611
Optional Backup of User Data F3612
Optional: Set Backup and archive preferences and/or scheduling F3613
Optional script executes that copies data from one data storage device to another data storage device(s) to create an "archive." F3614
Optional script executes that copies data from one data storage device to another data storage device(s) to create a "backup." F3615
Go To F3312

Figure F 37

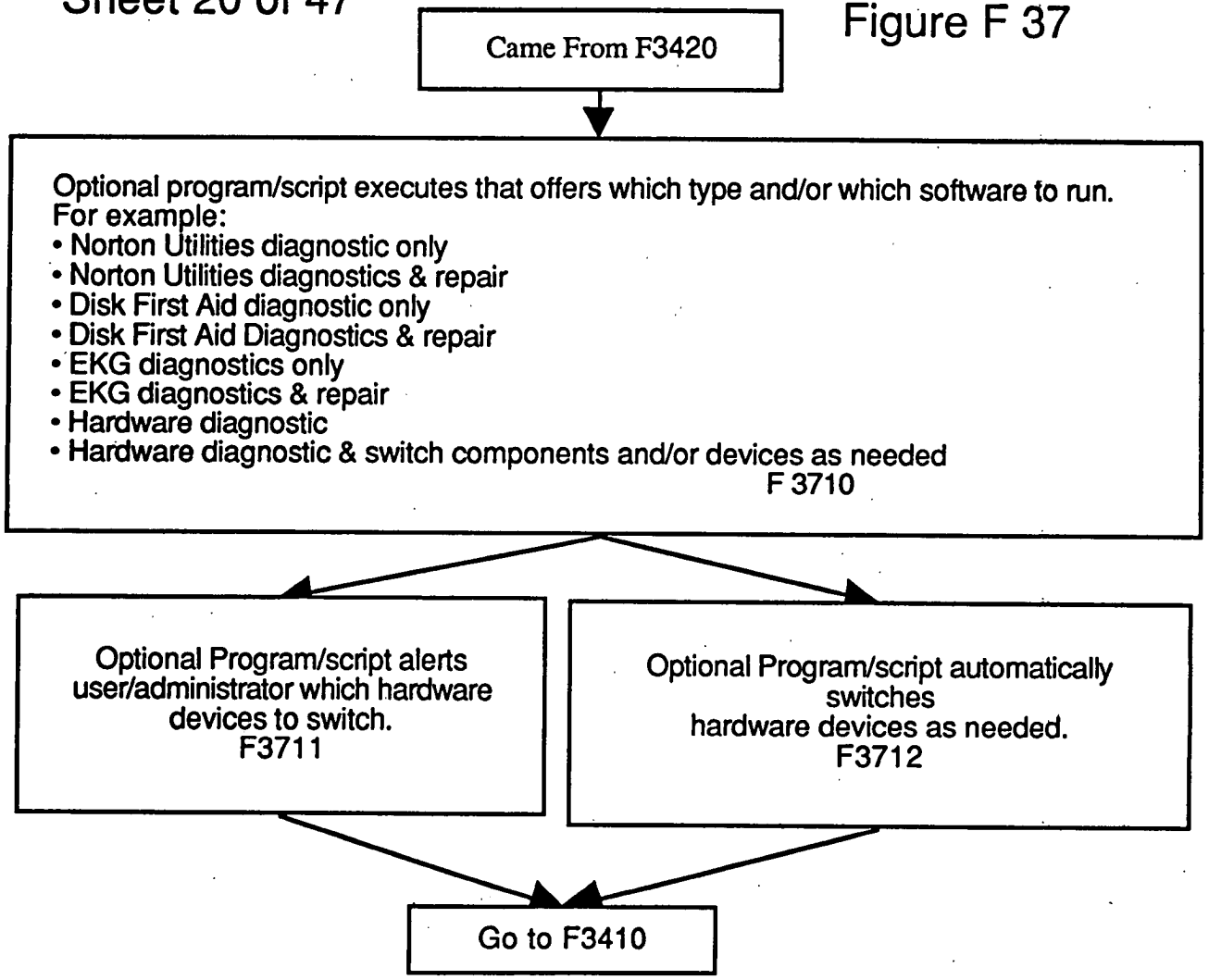

Came From F3420
Optional program/script executes that offers which type and/or which software to run.
For example:
• Norton Utilities diagnostic only
• Norton Utilities diagnostics & repair
• Disk First Aid diagnostic only
• Disk First Aid Diagnostics & repair
• EKG diagnostics only
• EKG diagnostics & repair
• Hardware diagnostic
• Hardware diagnostic & switch components and/or devices as needed
F 3710
Optional Program/script alerts user/administrator which hardware devices to switch.
F3711
Optional Program/script automatically switches hardware devices as needed.
F3712
Go to F3410

Figure F38

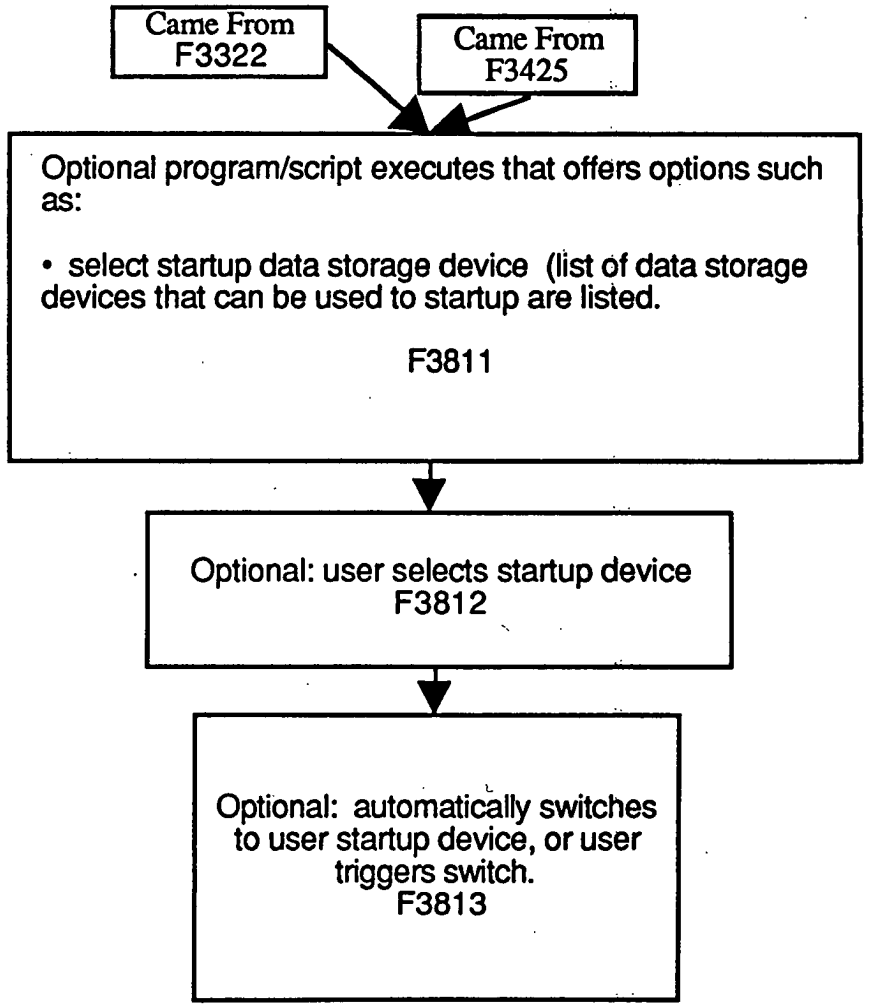

Came From F3322
Came From F3425
Optional program/script executes that offers options such as:
• select startup data storage device (list of data storage devices that can be used to startup are listed.
F3811
Optional: user selects startup device
F3812
Optional: automatically switches to user startup device, or user triggers switch.
F3813

Figure F39

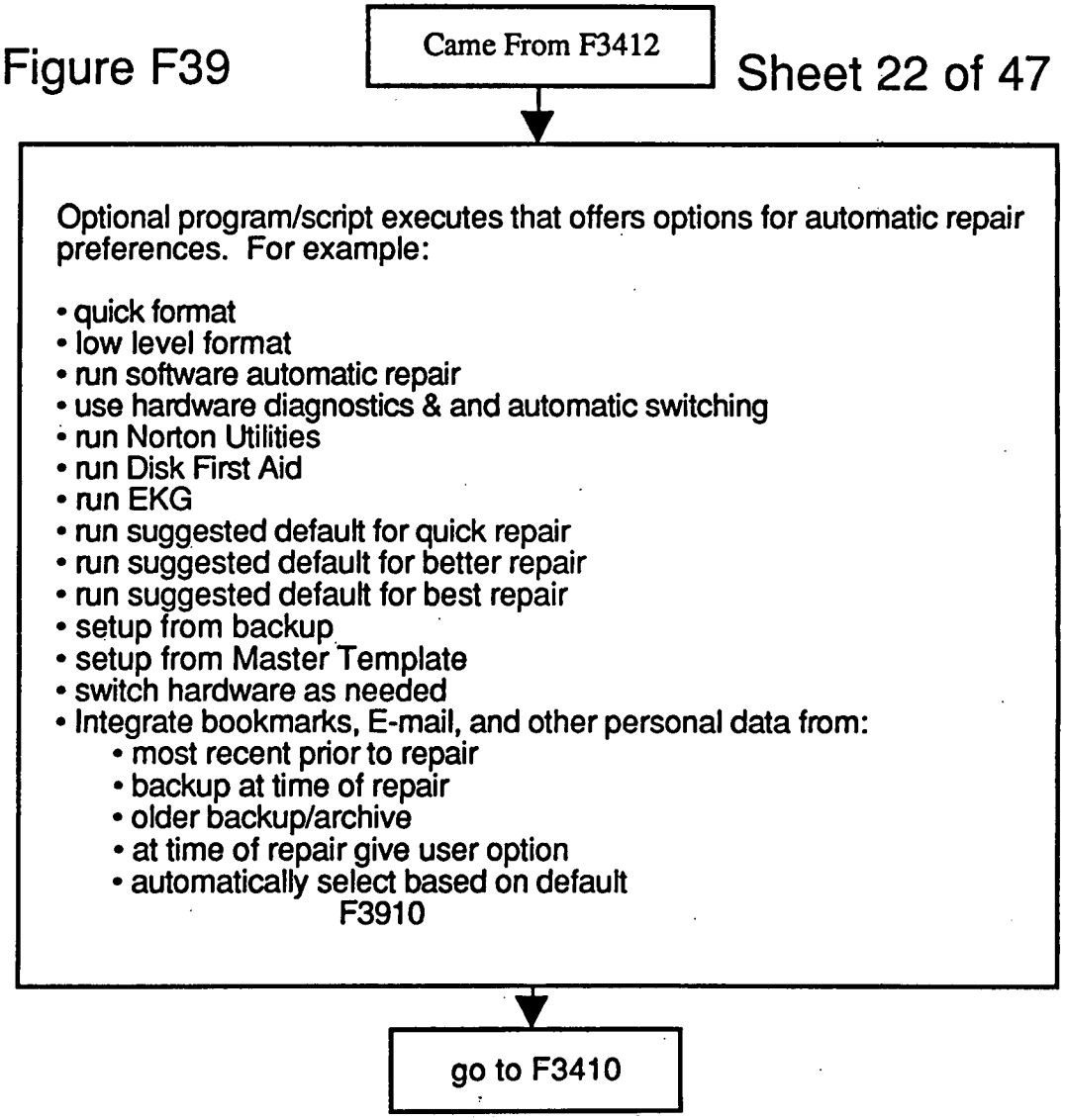

Came From F3412
Optional program/script executes that offers options for automatic repair preferences. For example:
• quick format
• low level format
• run software automatic repair
• use hardware diagnostics & and automatic switching
• run Norton Utilities
• run Disk First Aid
• run EKG
• run suggested default for quick repair
• run suggested default for better repair
• run suggested default for best repair
• setup from backup
• setup from Master Template
• switch hardware as needed
• Integrate bookmarks, E-mail, and other personal data from:
• most recent prior to repair
• backup at time of repair
• older backup/archive
• at time of repair give user option
• automatically select based on default
F3910
go to F3410

Figure F40

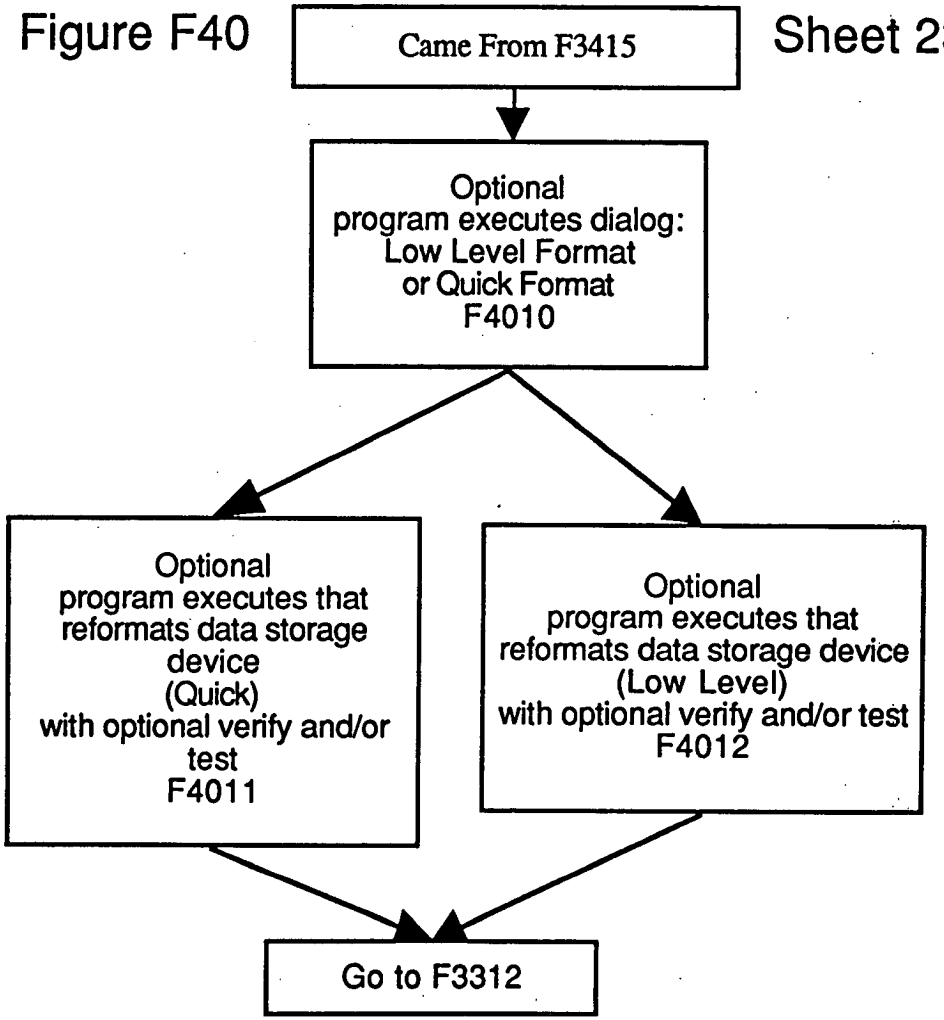

Came From F3415
Optional
program executes dialog:
Low Level Format
or Quick Format
F4010
Optional
program executes that
reformats data storage
device
(Quick)
with optional verify and/or
test
F4011
Optional
program executes that
reformats data storage device
(Low Level)
with optional verify and/or test
F4012
Go to F3312

Figure F41

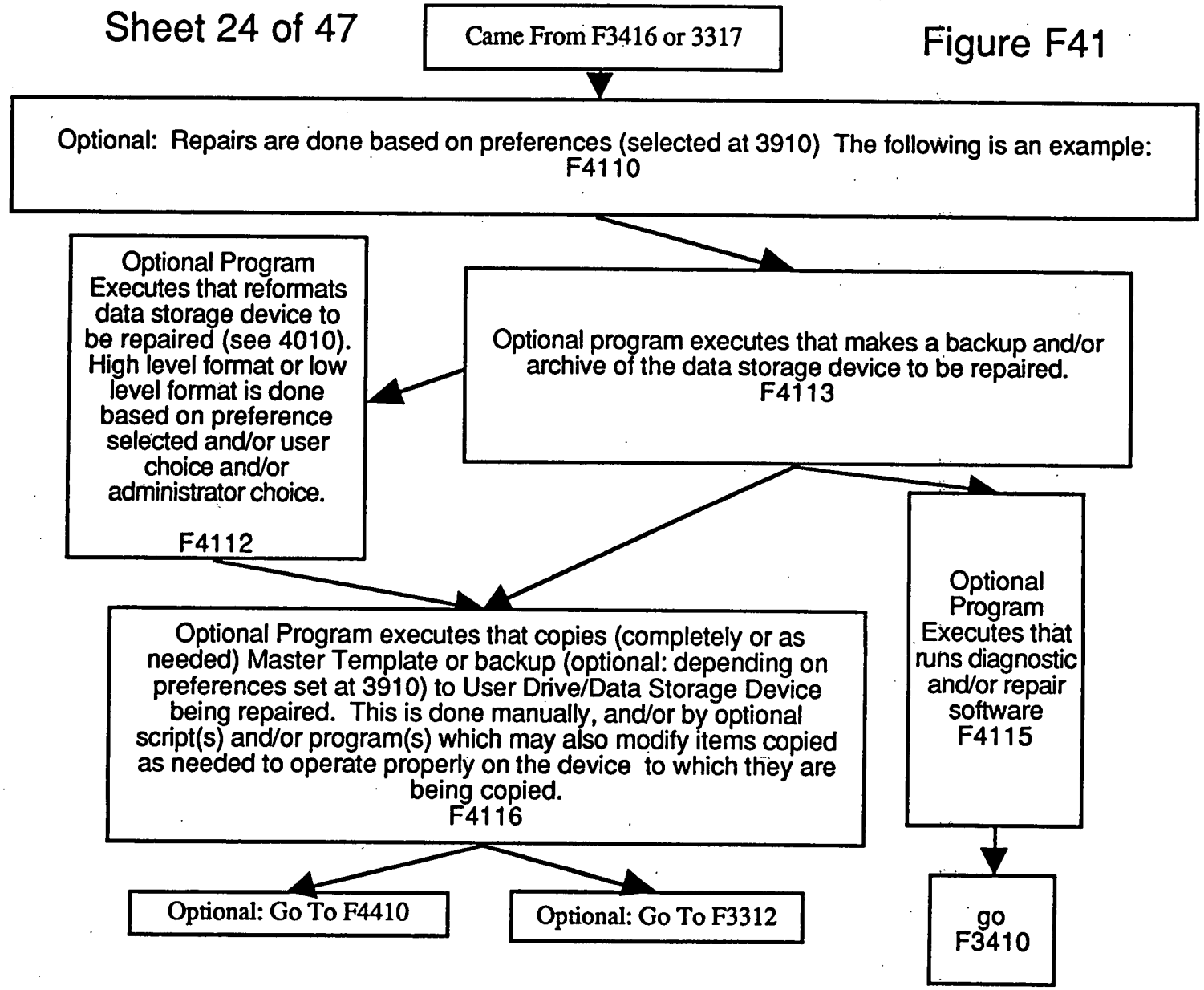

Came From F3416 or 3317
Optional: Repairs are done based on preferences (selected at 3910) The following is an example:
F4110
Optional Program Executes that reformats data storage device to be repaired (see 4010). High level format or low level format is done based on preference selected and/or user choice and/or administrator choice.
F4112
Optional program executes that makes a backup and/or archive of the data storage device to be repaired.
F4113
Optional Program Executes that runs diagnostic and/or repair software
F4115
Optional Program executes that copies (completely or as needed) Master Template or backup (optional: depending on preferences set at 3910) to User Drive/Data Storage Device being repaired. This is done manually, and/or by optional script(s) and/or program(s) which may also modify items copied as needed to operate properly on the device to which they are being copied.
F4116
Optional: Go To F4410
Optional: Go To F3312
go F3410

Figure F42

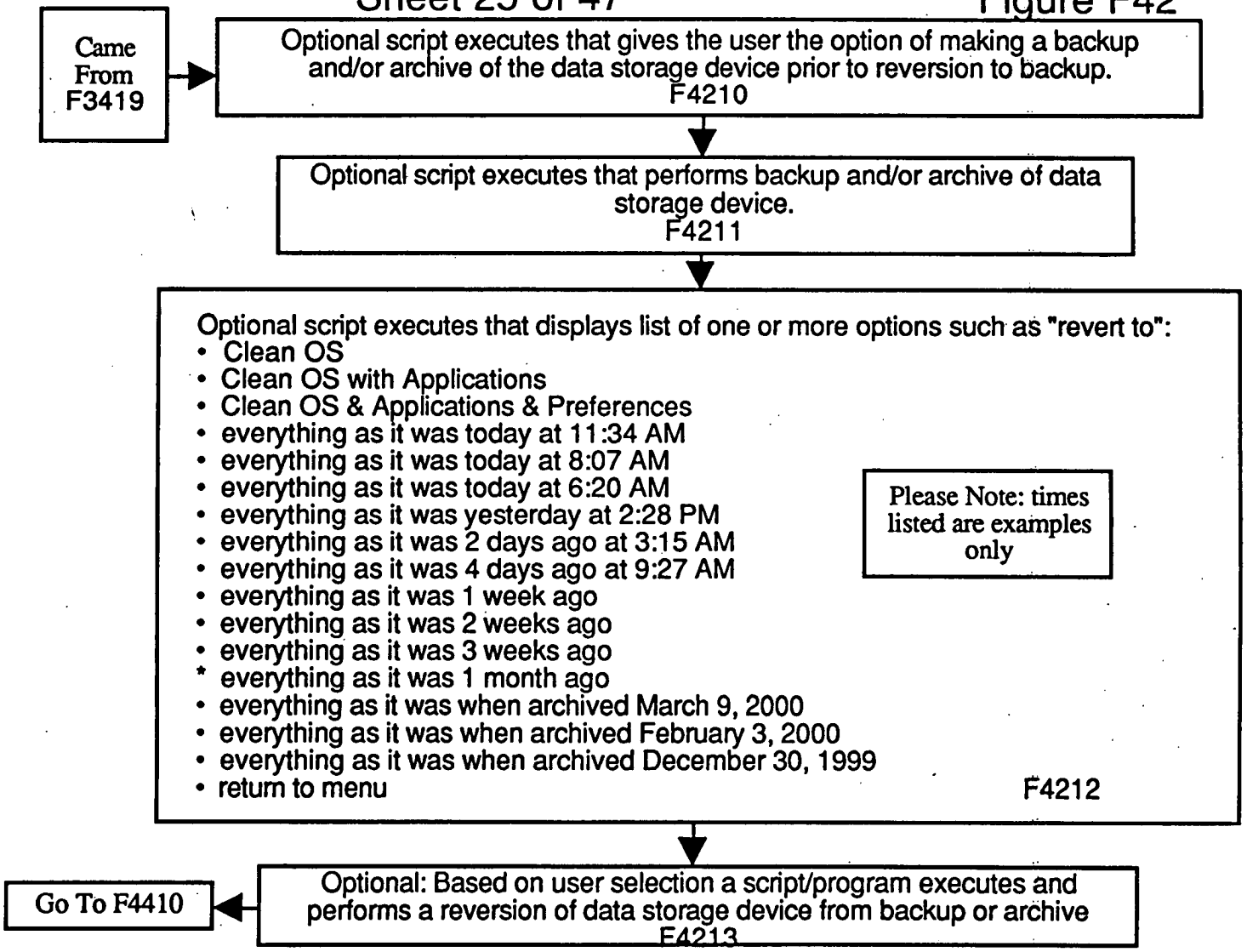

Came From F3419
Optional script executes that gives the user the option of making a backup and/or archive of the data storage device prior to reversion to backup.
F4210
Optional script executes that performs backup and/or archive of data storage device.
F4211
Optional script executes that displays list of one or more options such as "revert to":
• Clean OS
• Clean OS with Applications
• Clean OS & Applications & Preferences
• everything as it was today at 11:34 AM
• everything as it was today at 8:07 AM
• everything as it was today at 6:20 AM
• everything as it was yesterday at 2:28 PM
• everything as it was 2 days ago at 3:15 AM
• everything as it was 4 days ago at 9:27 AM
• everything as it was 1 week ago
• everything as it was 2 weeks ago
• everything as it was 3 weeks ago
* everything as it was 1 month ago
• everything as it was when archived March 9, 2000
• everything as it was when archived February 3, 2000
• everything as it was when archived December 30, 1999
• return to menu
Please Note: times listed are examples only
F4212
Optional: Based on user selection a script/program executes and performs a reversion of data storage device from backup or archive
F4213
Go To F4410

Figure F43

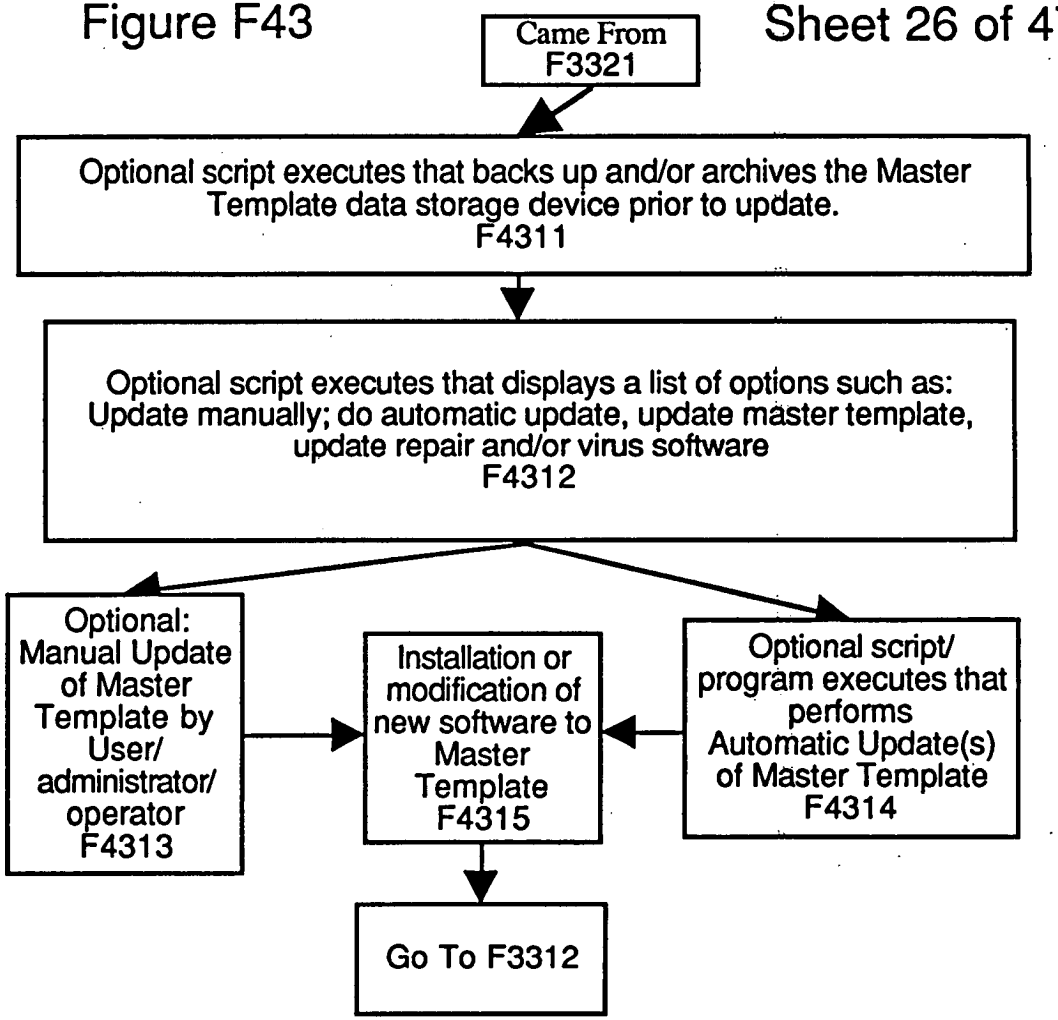
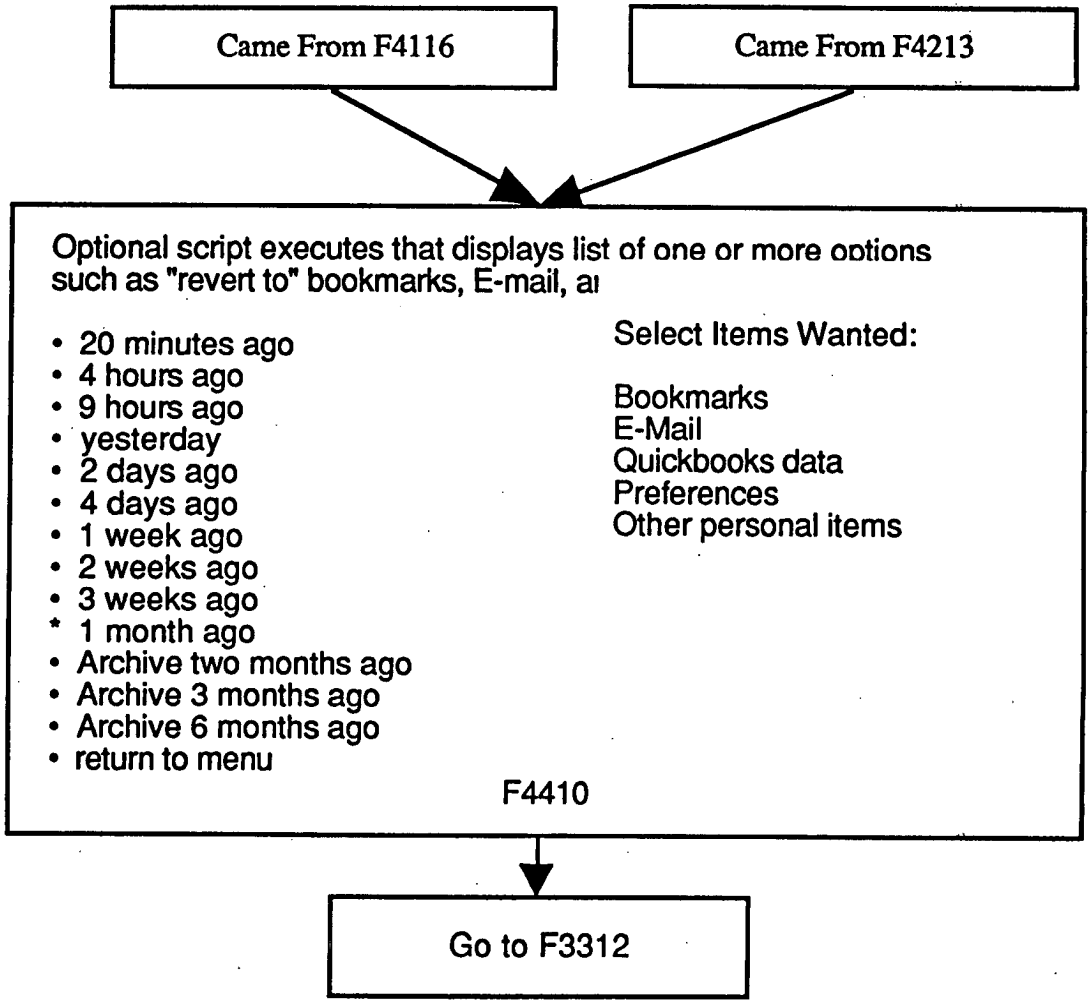

Came From F3321
Optional script executes that backs up and/or archives the Master Template data storage device prior to update. F4311
Optional script executes that displays a list of options such as: Update manually; do automatic update, update master template, update repair and/or virus software F4312
Optional: Manual Update of Master Template by User/ administrator/ operator F4313
Installation or modification of new software to Master Template F4315
Optional script/ program executes that performs Automatic Update(s) of Master Template F4314
Go To F3312

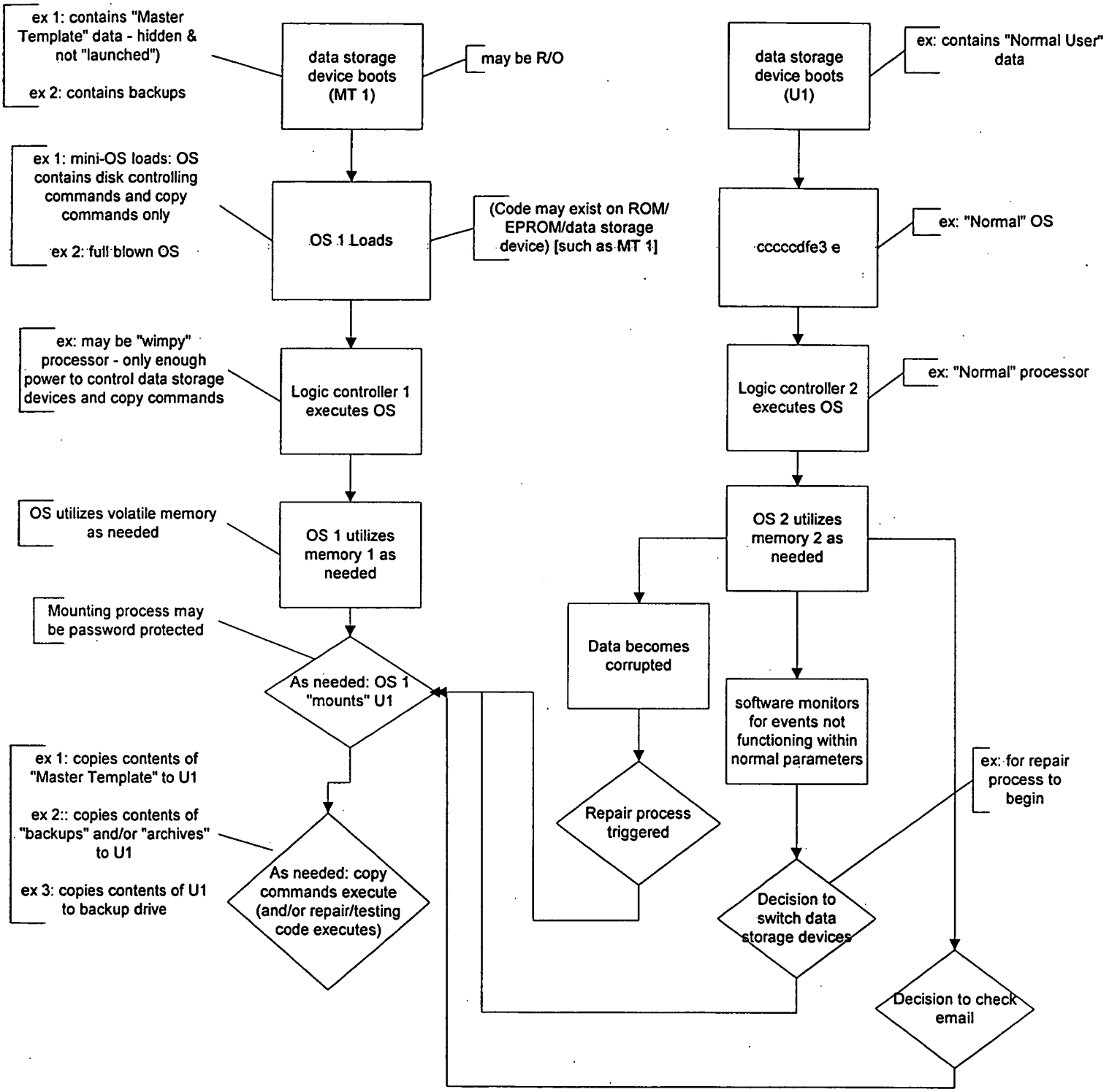
Figure F44


Came From F4116
Came From F4213
Optional script executes that displays list of one or more options such as "revert to" bookmarks, E-mail, a
• 20 minutes ago
• 4 hours ago
• 9 hours ago
• yesterday
• 2 days ago
• 4 days ago
• 1 week ago
• 2 weeks ago
• 3 weeks ago
* 1 month ago
• Archive two months ago
• Archive 3 months ago
• Archive 6 months ago
• return to menu
Select Items Wanted:
Bookmarks
E-Mail
Quickbooks data
Preferences
Other personal items
F4410
Go to F3312

(This "No shutdown necessary" method also Applies to Multi-User & Virus-Proof)

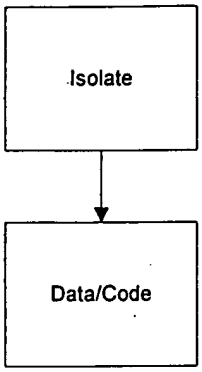
Switching Process without shutting down - utilizing dual Processors and dual Memory

Figure F50



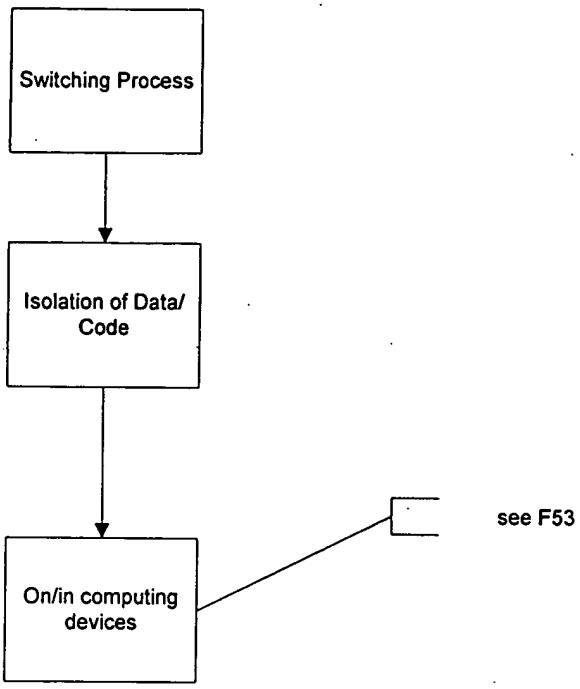
Virus-Proof
Hacker-Proof

Figure F51



1.) Isolation

Figure F52



2.) Expanded

Figure F53

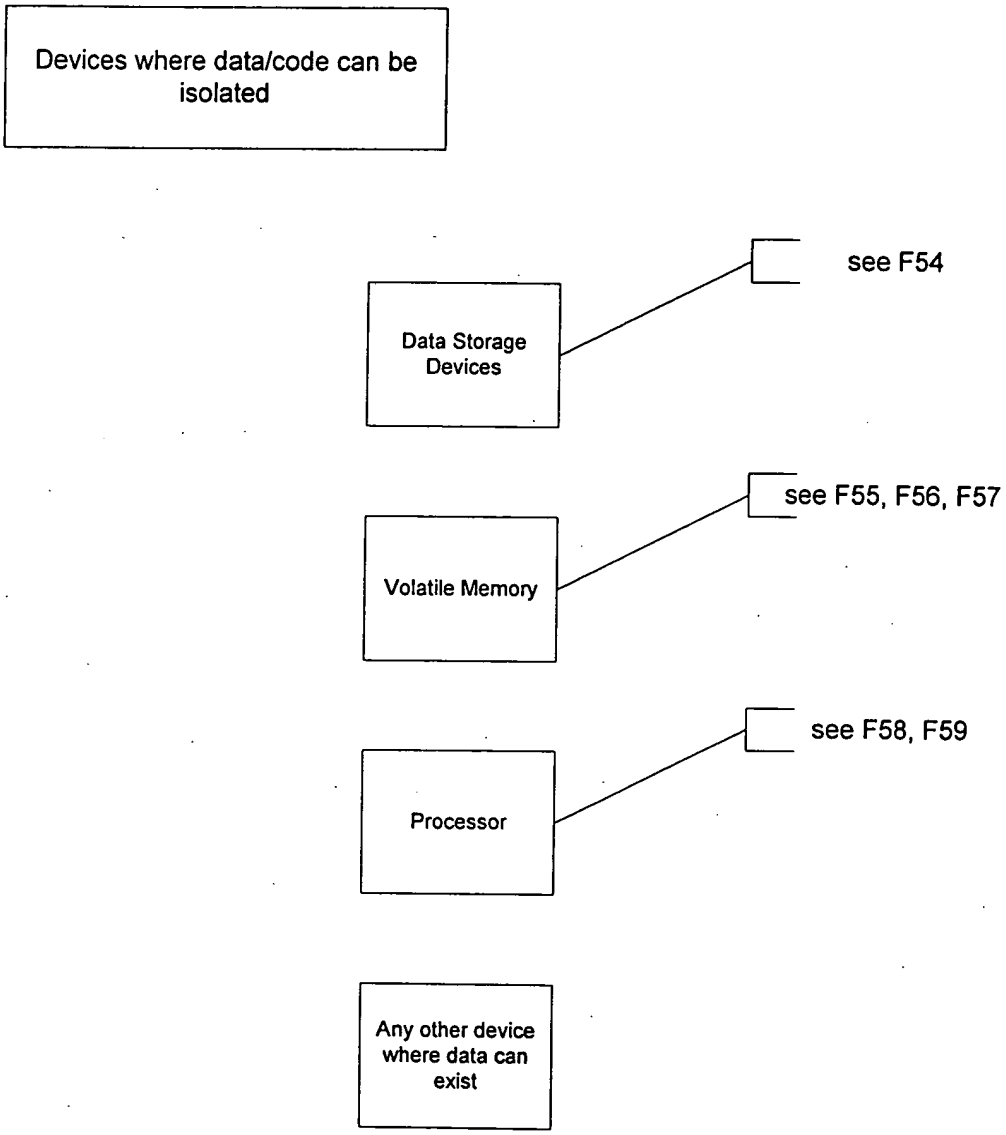
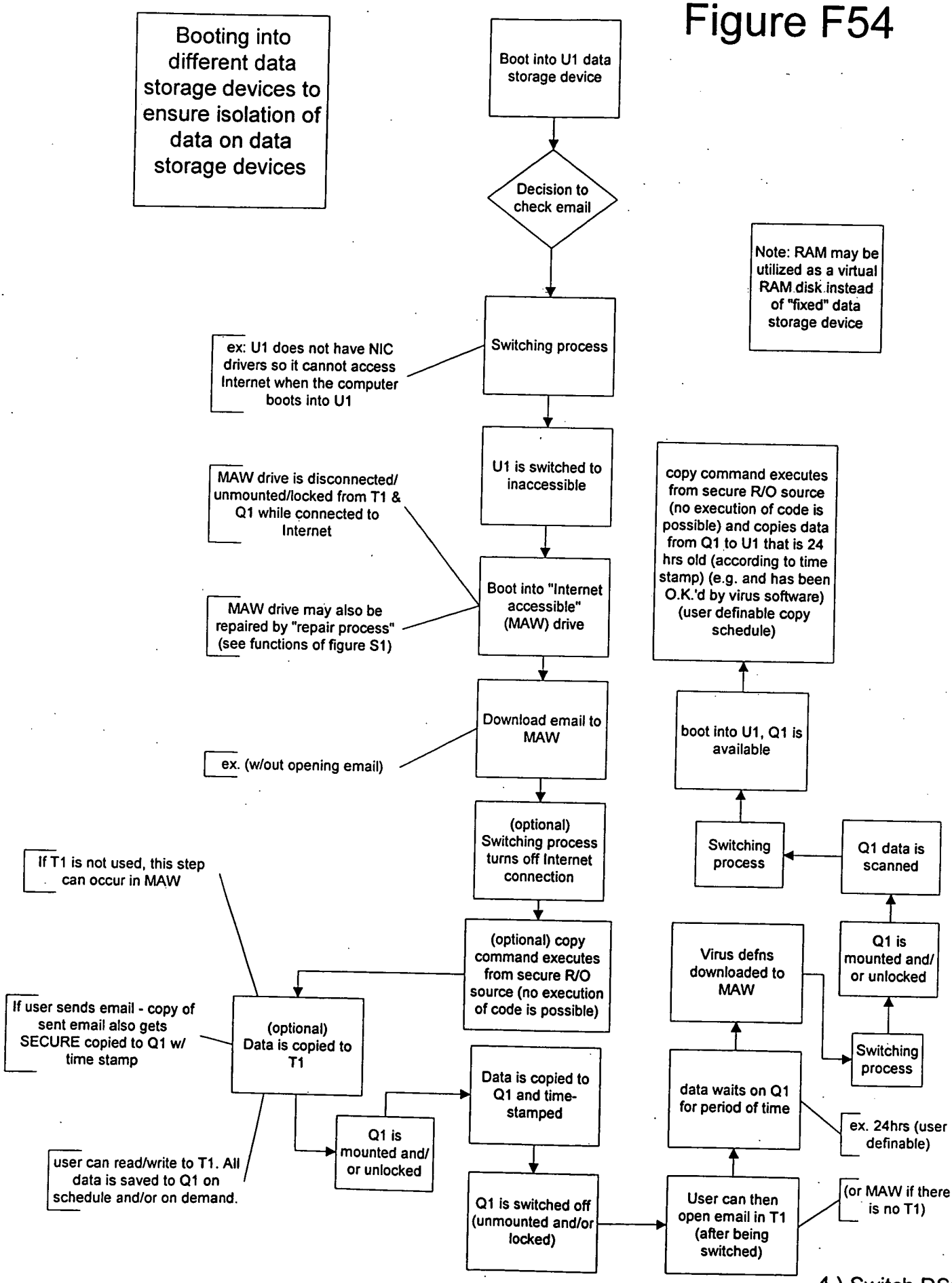

Devices where data/code can be isolated
Data Storage Devices
see F54
Volatile Memory
see F55, F56, F57
Processor
see F58, F59
Any other device where data can exist

Figure F54

Booting into different data storage devices to ensure isolation of data on data storage devices



4.) Switch DSDs

Isolating data in volatile memory by "Flushing" volatile memory

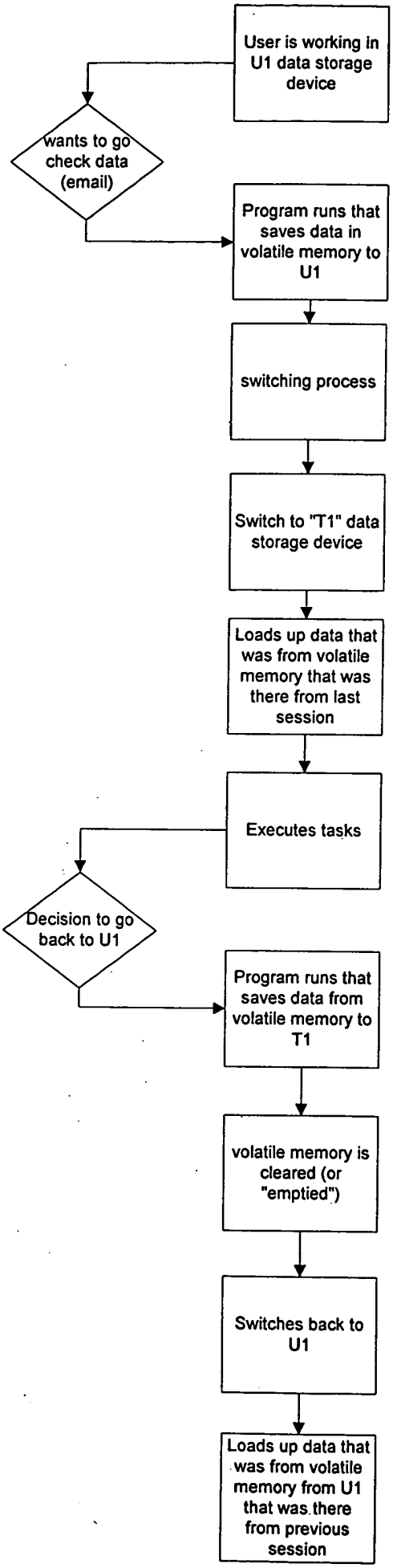


Figure F55

5.) Flush RAM

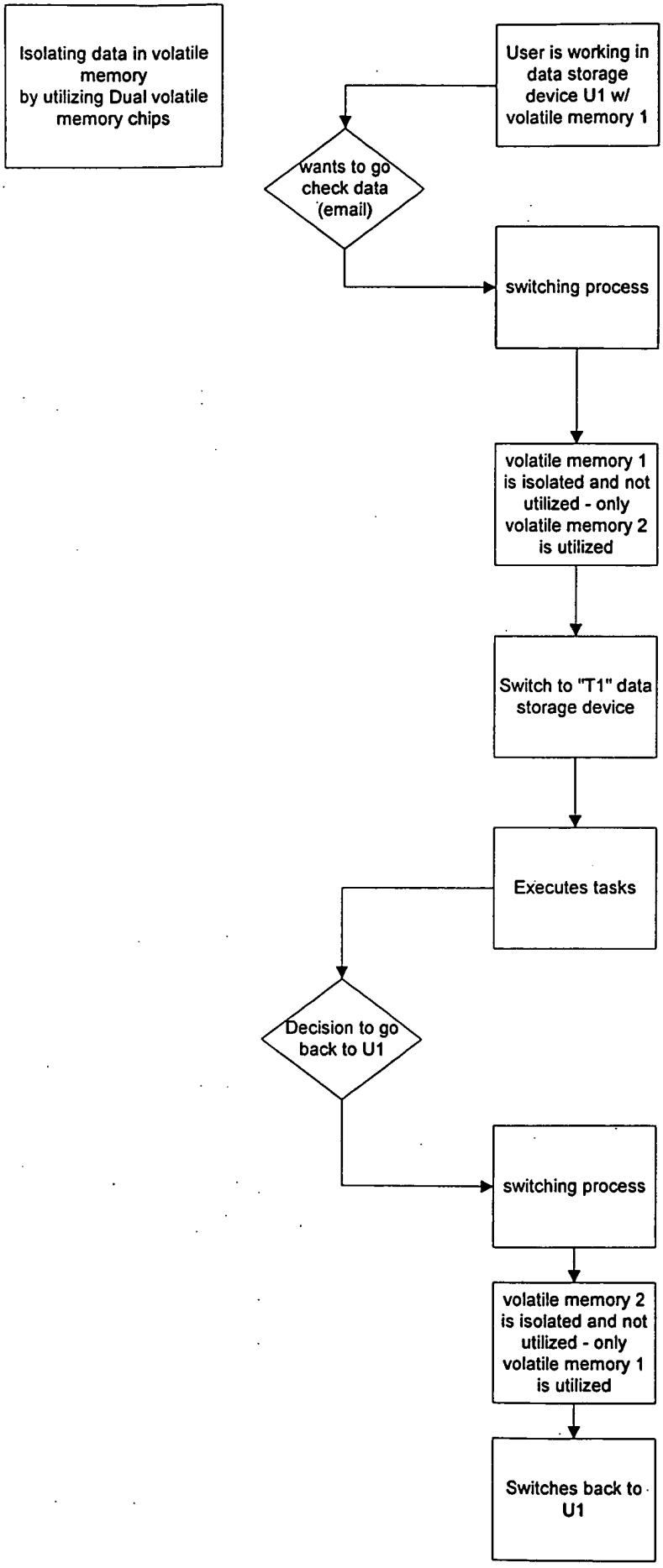


Figure F56

6.) Dual RAM

Isolating data in volatile memory
by utilizing "protected" segments of volatile memory in 1 volatile memory chip

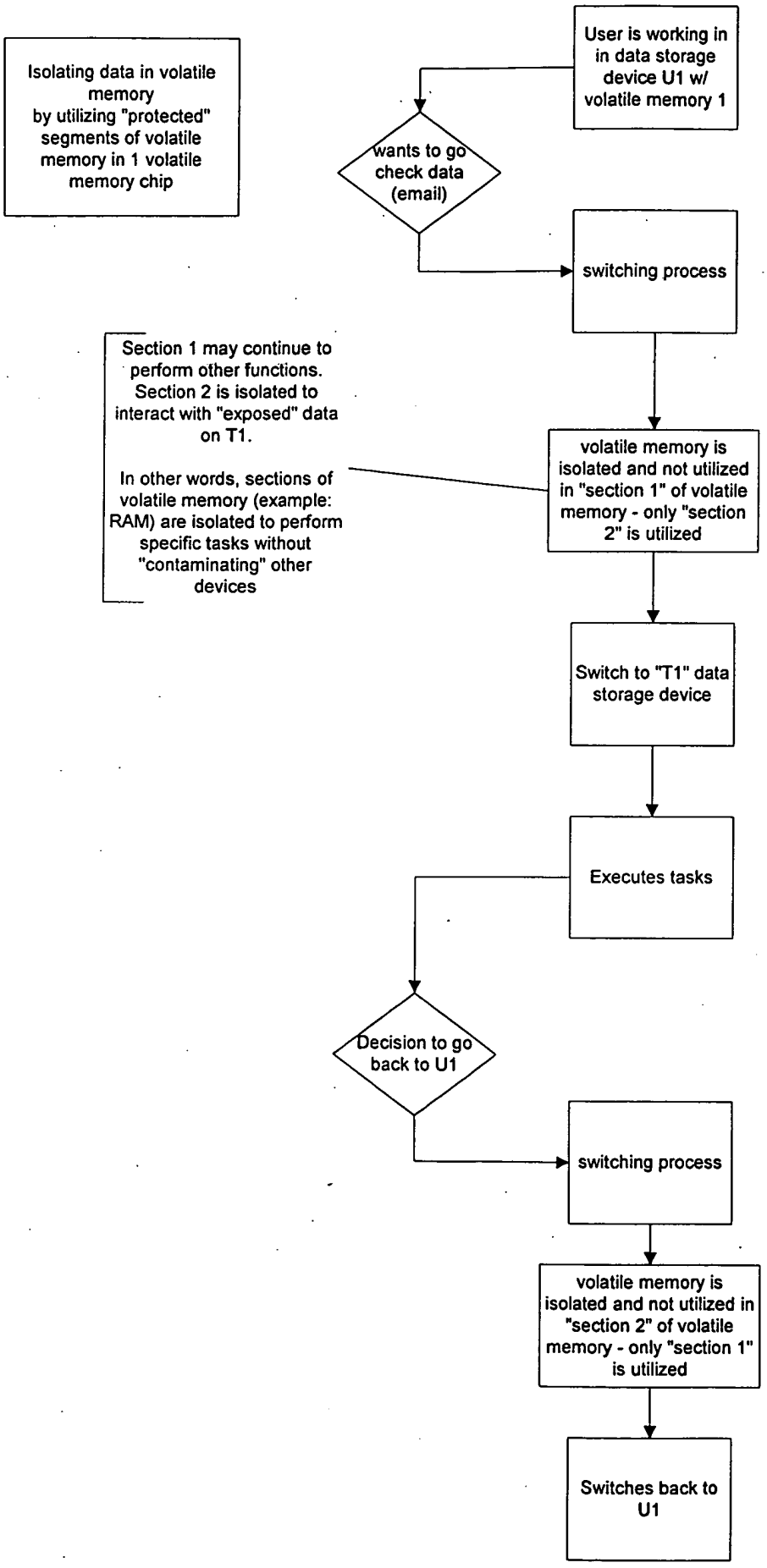


Figure F57

7.) Single RAM - isolated funcs

Figure F58

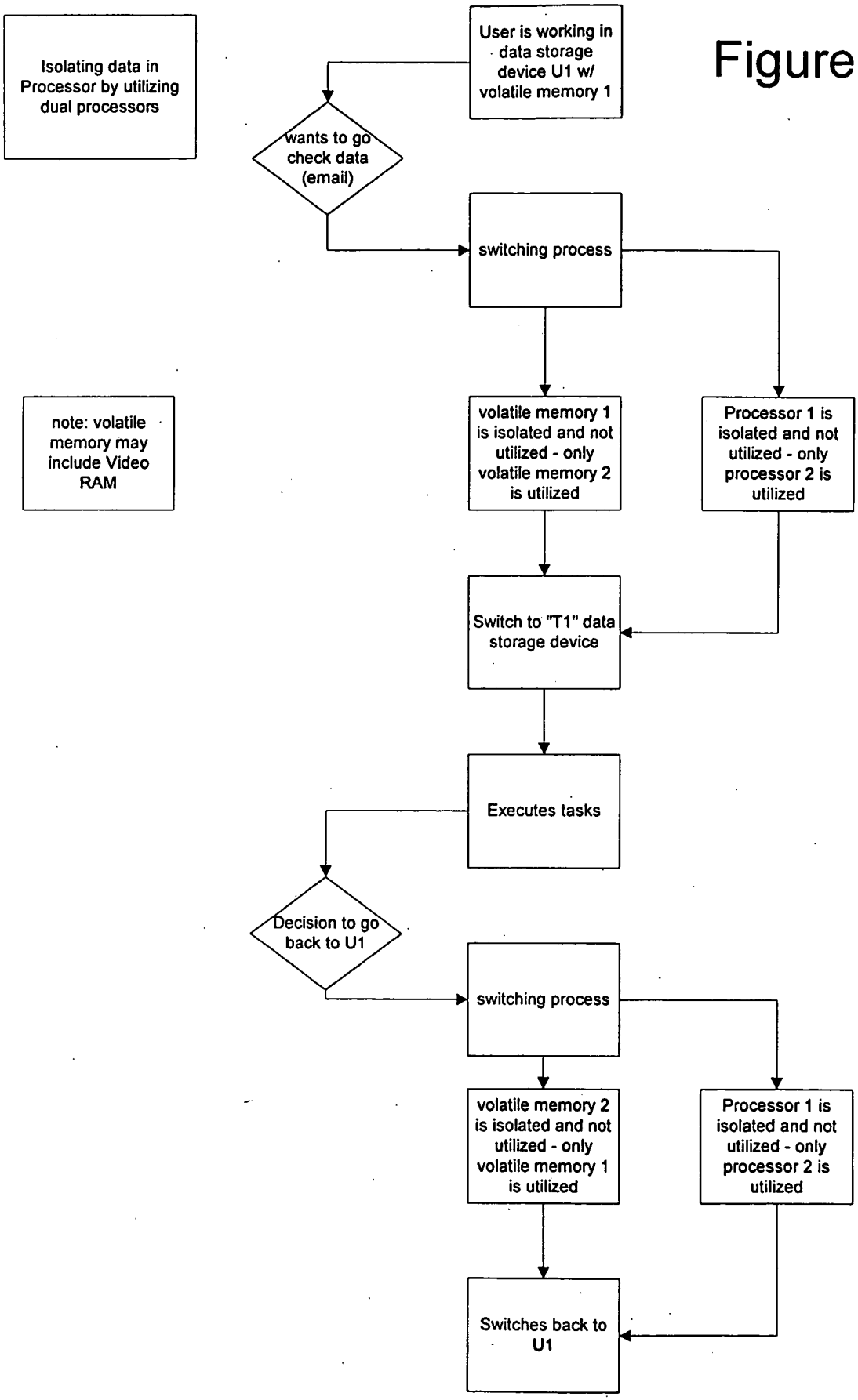
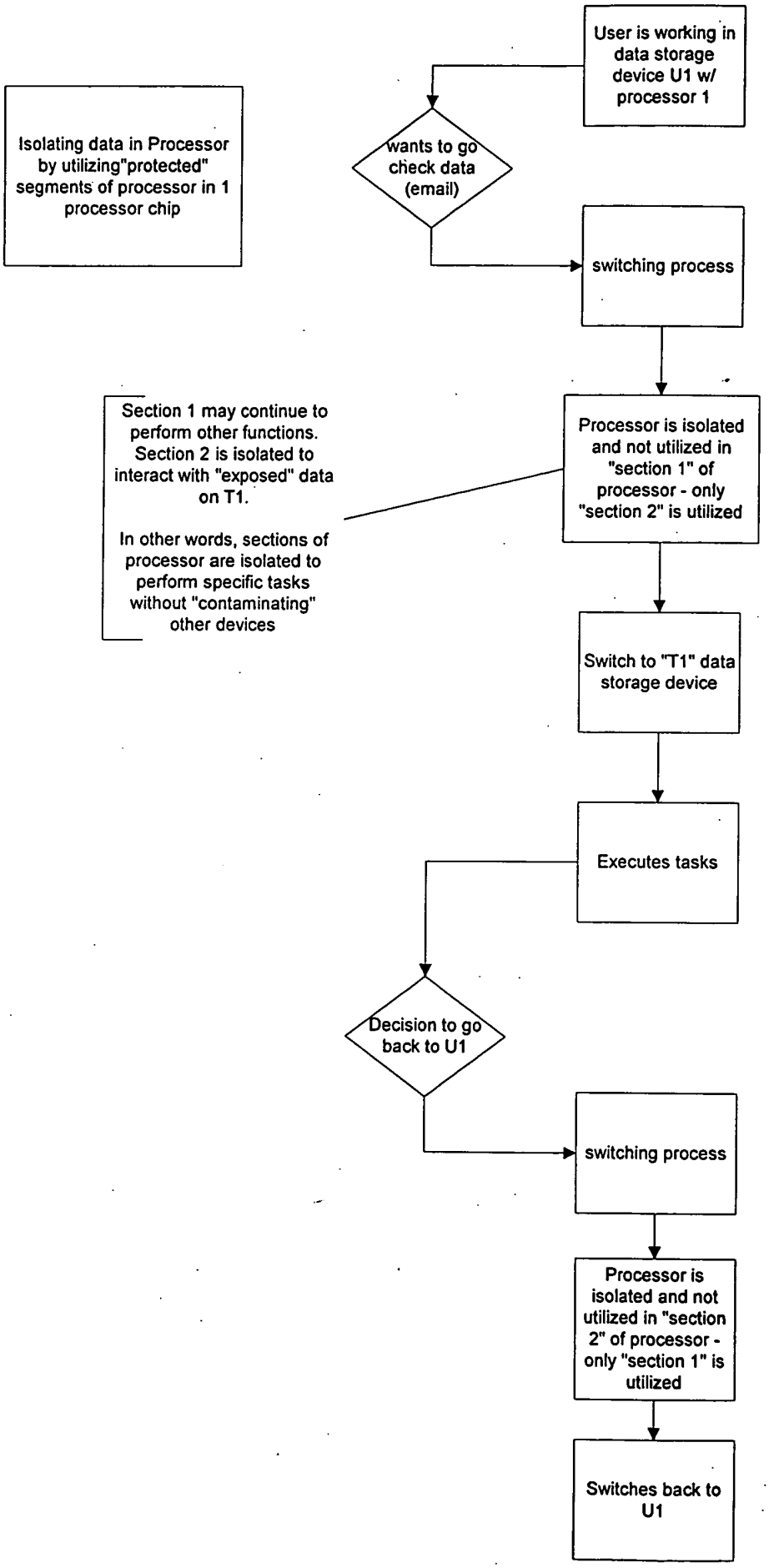

Isolating data in Processor by utilizing dual processors
User is working in data storage device U1 w/ volatile memory 1
wants to go check data (email)
switching process
note: volatile memory may include Video RAM
volatile memory 1 is isolated and not utilized - only volatile memory 2 is utilized
Processor 1 is isolated and not utilized - only processor 2 is utilized
Switch to "T1" data storage device
Executes tasks
Decision to go back to U1
switching process
volatile memory 2 is isolated and not utilized - only volatile memory 1 is utilized
Processor 1 is isolated and not utilized - only processor 2 is utilized
Switches back to U1

Figure F59



9.) Single Processor "protected"

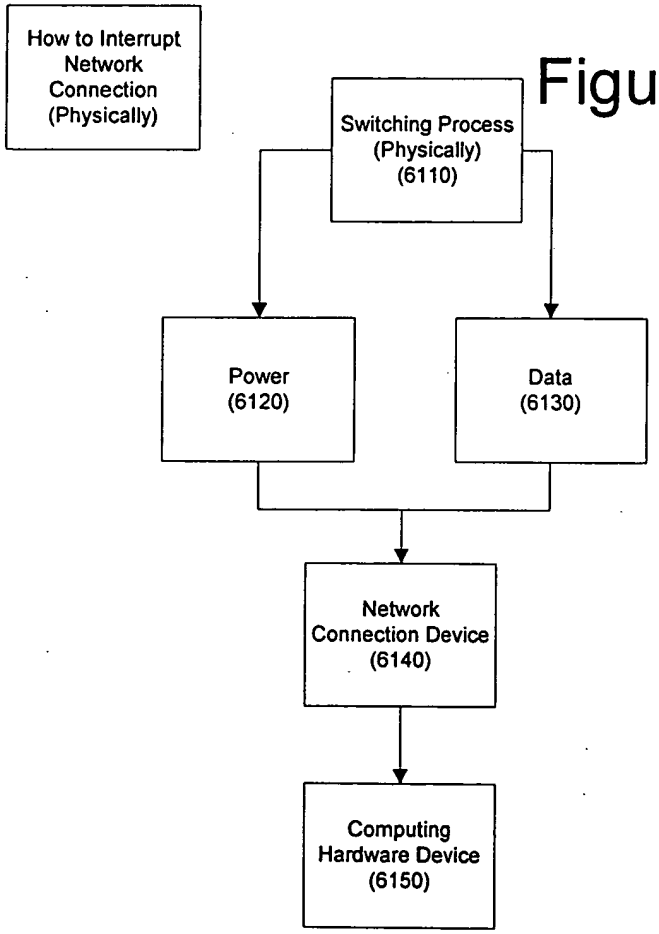

How to Interrupt Network Connection (Physically)
Switching Process (Physically) (6110)
Power (6120)
Data (6130)
Network Connection Device (6140)
Computing Hardware Device (6150)

Figure F61

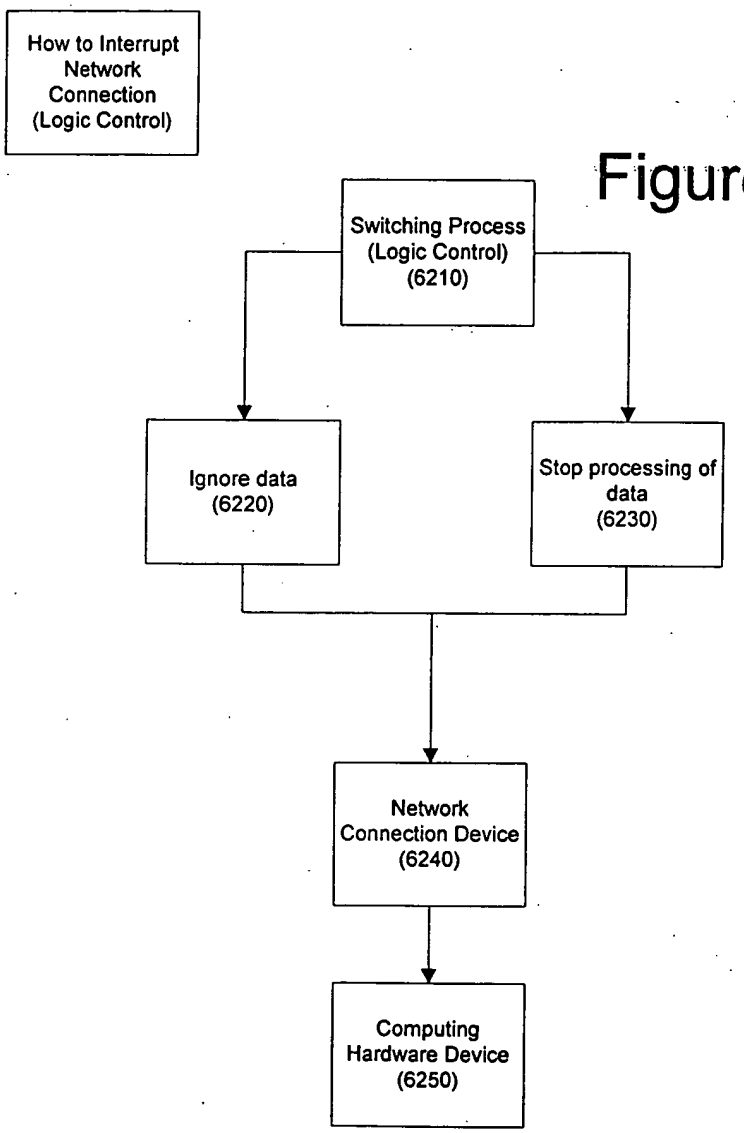

How to Interrupt Network Connection (Logic Control)
Switching Process (Logic Control) (6210)
Ignore data (6220)
Stop processing of data (6230)
Network Connection Device (6240)
Computing Hardware Device (6250)

Figure F62

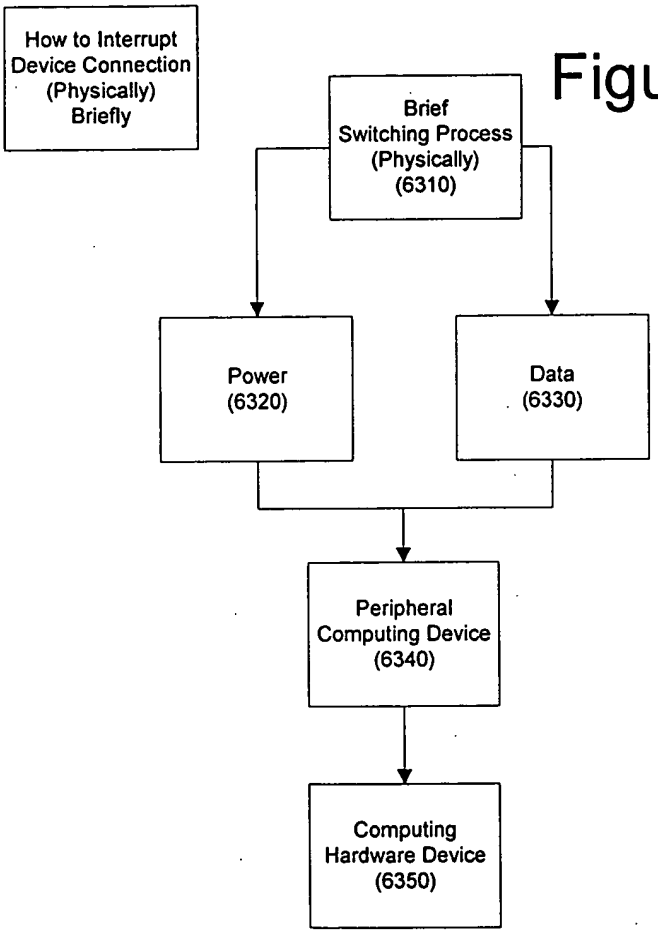

How to Interrupt Device Connection (Physically) Briefly
Brief Switching Process (Physically) (6310)
Power (6320)
Data (6330)
Peripheral Computing Device (6340)
Computing Hardware Device (6350)

Figure F63

FIGURE F64

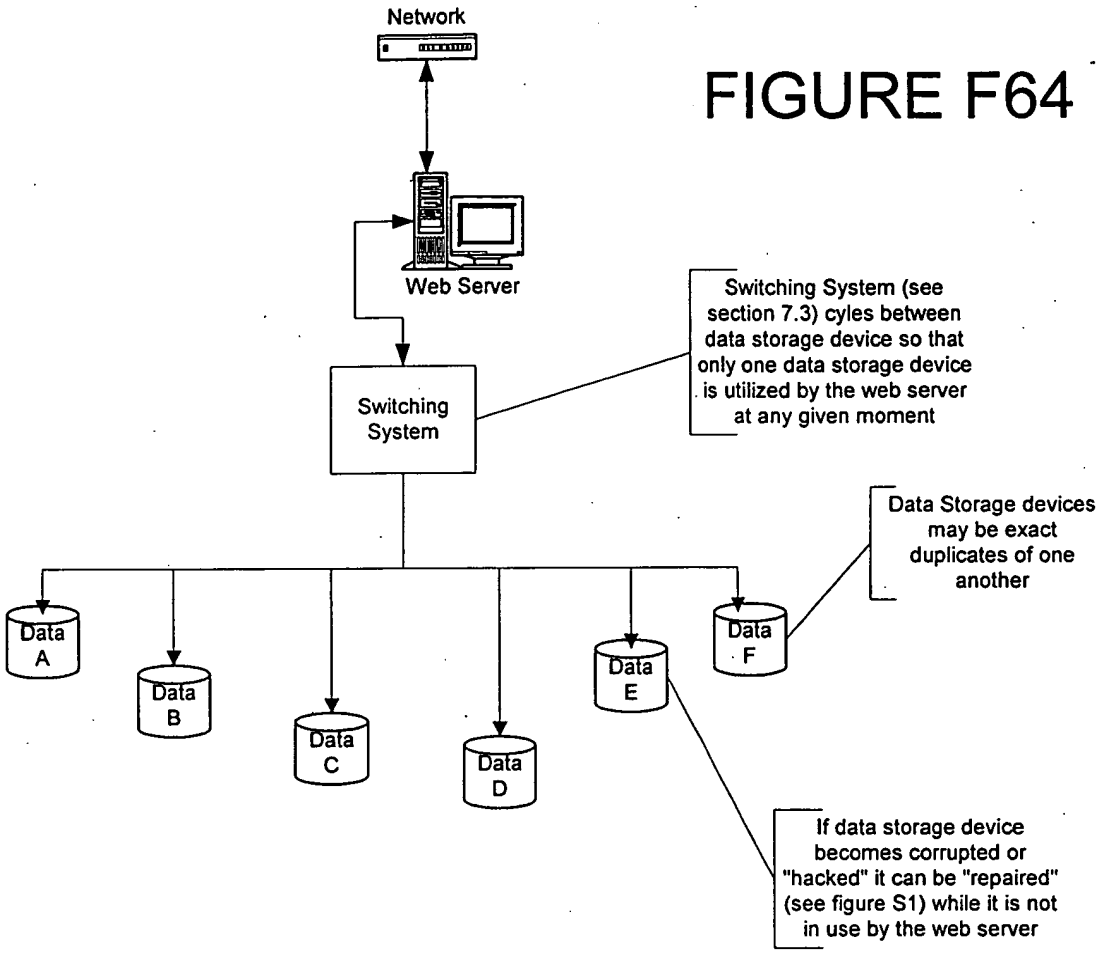

Network
Web Server
Switching System
Switching System (see section 7.3) cyles between data storage device so that only one data storage device is utilized by the web server at any given moment
Data Storage devices may be exact duplicates of one another
Data A
Data B
Data C
Data D
Data E
Data F
If data storage device becomes corrupted or "hacked" it can be "repaired" (see figure S1) while it is not in use by the web server

FIGURE F65

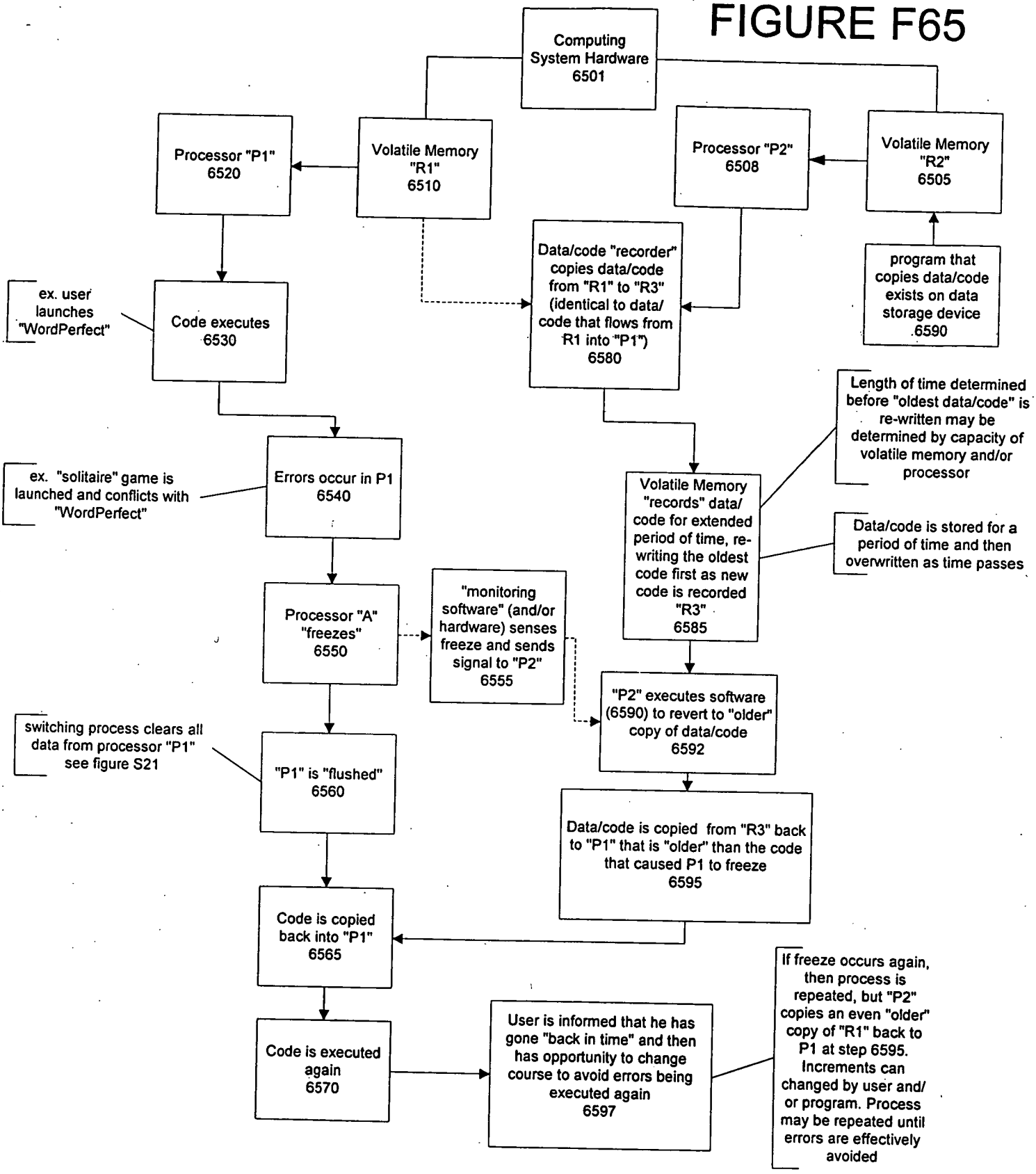
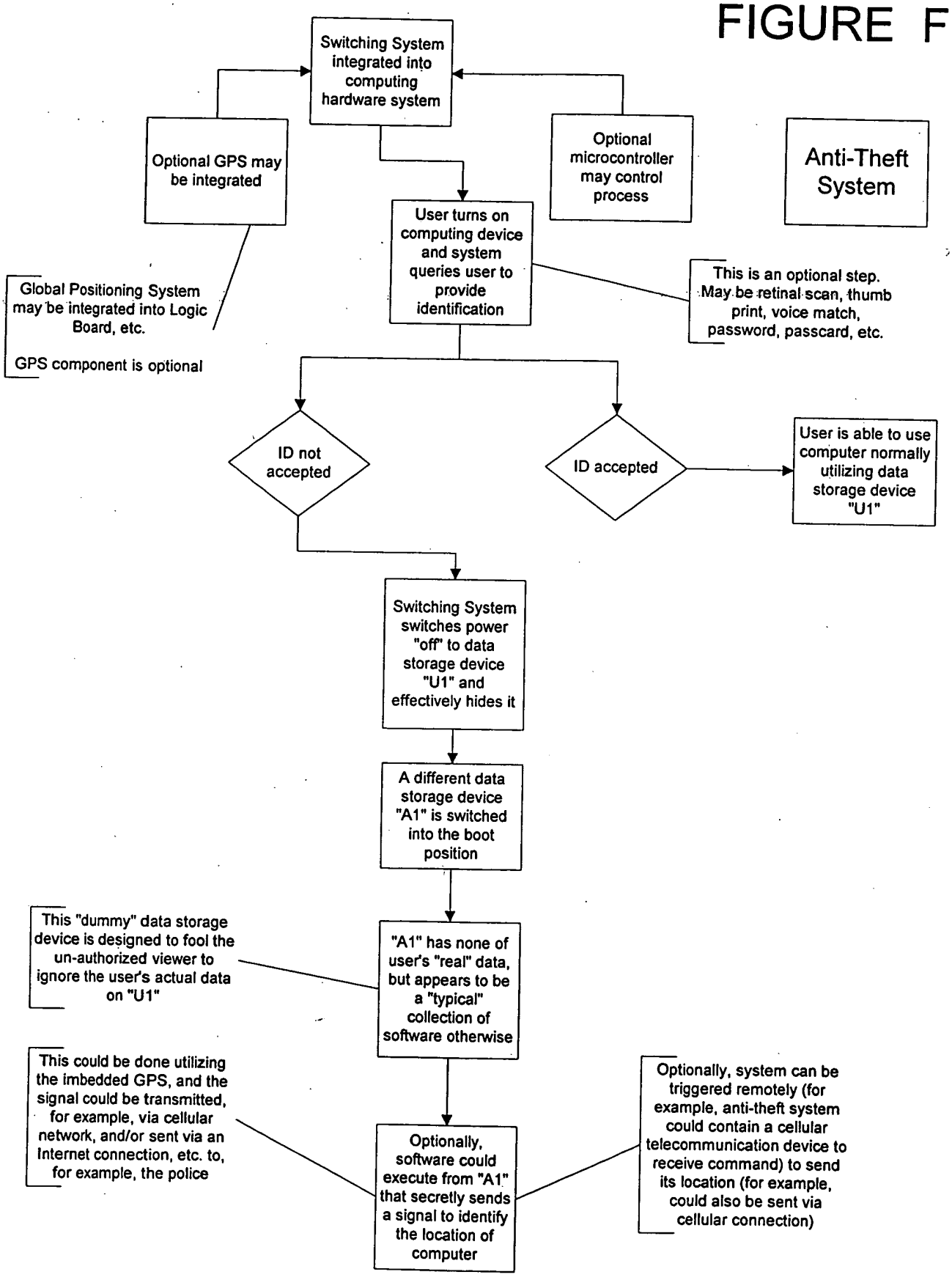

Computing System Hardware 6501
Processor "P1" 6520
Volatile Memory "R1" 6510
Processor "P2" 6508
Volatile Memory "R2" 6505
program that copies data/code exists on data storage device 6590
Data/code "recorder" copies data/code from "R1" to "R3" (identical to data/ code that flows from R1 into "P1") 6580
ex. user launches "WordPerfect"
Code executes 6530
Length of time determined before "oldest data/code" is re-written may be determined by capacity of volatile memory and/or processor
ex. "solitaire" game is launched and conflicts with "WordPerfect"
Errors occur in P1 6540
Volatile Memory "records" data/ code for extended period of time, re-writing the oldest code first as new code is recorded "R3" 6585
Data/code is stored for a period of time and then overwritten as time passes
Processor "A" "freezes" 6550
"monitoring software" (and/or hardware) senses freeze and sends signal to "P2" 6555
"P2" executes software (6590) to revert to "older" copy of data/code 6592
switching process clears all data from processor "P1" see figure S21
"P1" is "flushed" 6560
Data/code is copied from "R3" back to "P1" that is "older" than the code that caused P1 to freeze 6595
Code is copied back into "P1" 6565
Code is executed again 6570
User is informed that he has gone "back in time" and then has opportunity to change course to avoid errors being executed again 6597
If freeze occurs again, then process is repeated, but "P2" copies an even "older" copy of "R1" back to P1 at step 6595. Increments can changed by user and/ or program. Process may be repeated until errors are effectively avoided

FIGURE F66


Switching System integrated into computing hardware system
Optional GPS may be integrated
Optional microcontroller may control process
Anti-Theft System
User turns on computing device and system queries user to provide identification
Global Positioning System may be integrated into Logic Board, etc.
GPS component is optional
This is an optional step. May be retinal scan, thumb print, voice match, password, passcard, etc.
ID not accepted
ID accepted
User is able to use computer normally utilizing data storage device "U1"
Switching System switches power "off" to data storage device "U1" and effectively hides it
A different data storage device "A1" is switched into the boot position
This "dummy" data storage device is designed to fool the un-authorized viewer to ignore the user's actual data on "U1"
"A1" has none of user's "real" data, but appears to be a "typical" collection of software otherwise
This could be done utilizing the imbedded GPS, and the signal could be transmitted, for example, via cellular network, and/or sent via an Internet connection, etc. to, for example, the police
Optionally, software could execute from "A1" that secretly sends a signal to identify the location of computer
Optionally, system can be triggered remotely (for example, anti-theft system could contain a cellular telecommunication device to receive command) to send its location (for example, could also be sent via cellular connection)

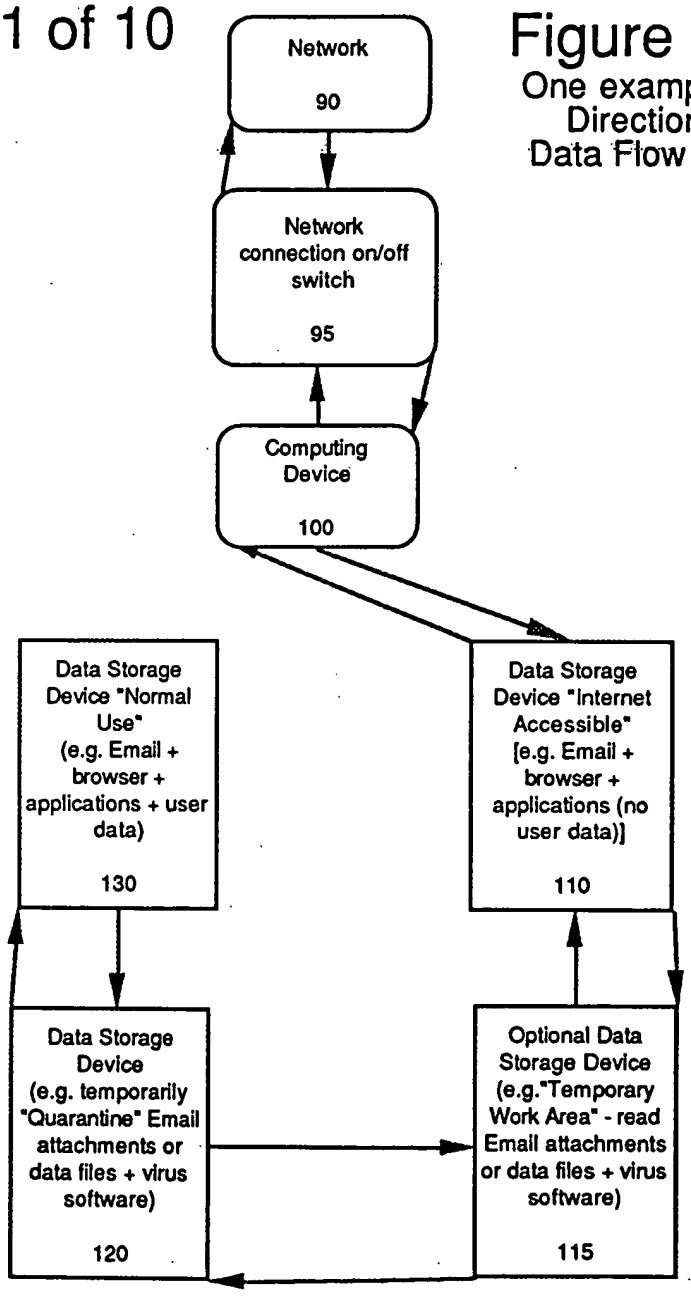


Figure F90
One example of Directional Data Flow Path

Figure F200.1

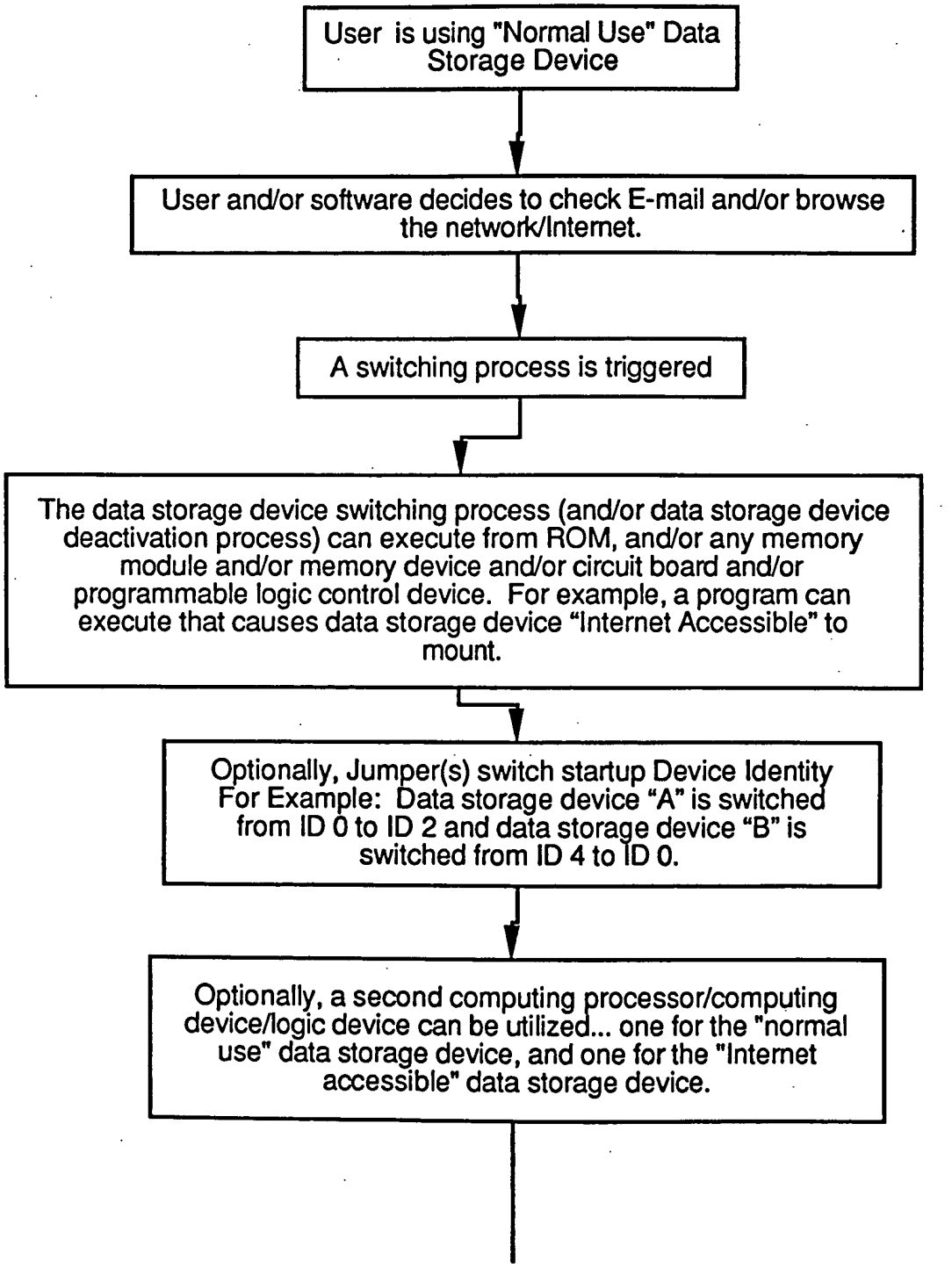


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Figure F200.2

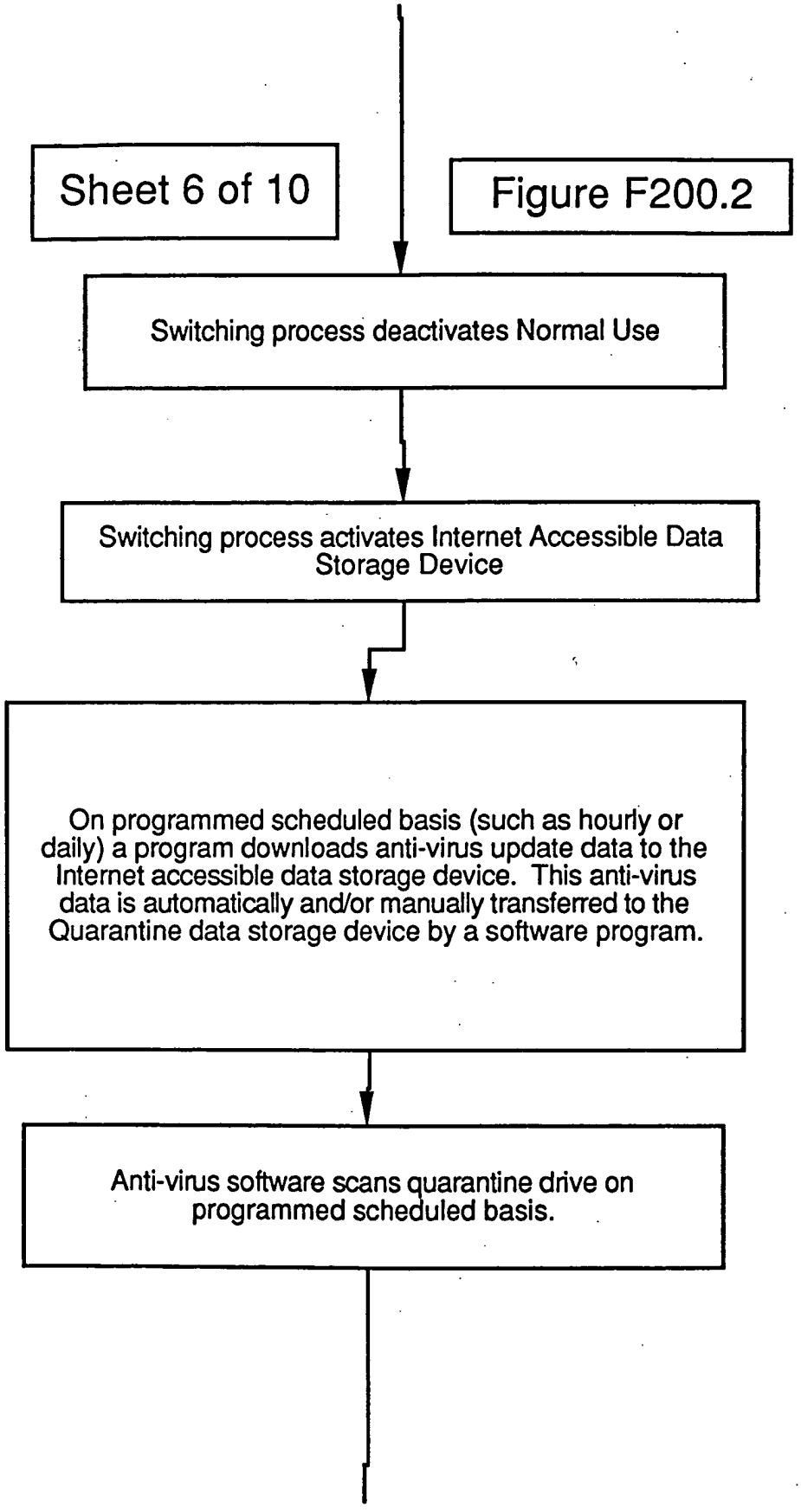

Figure F200.3

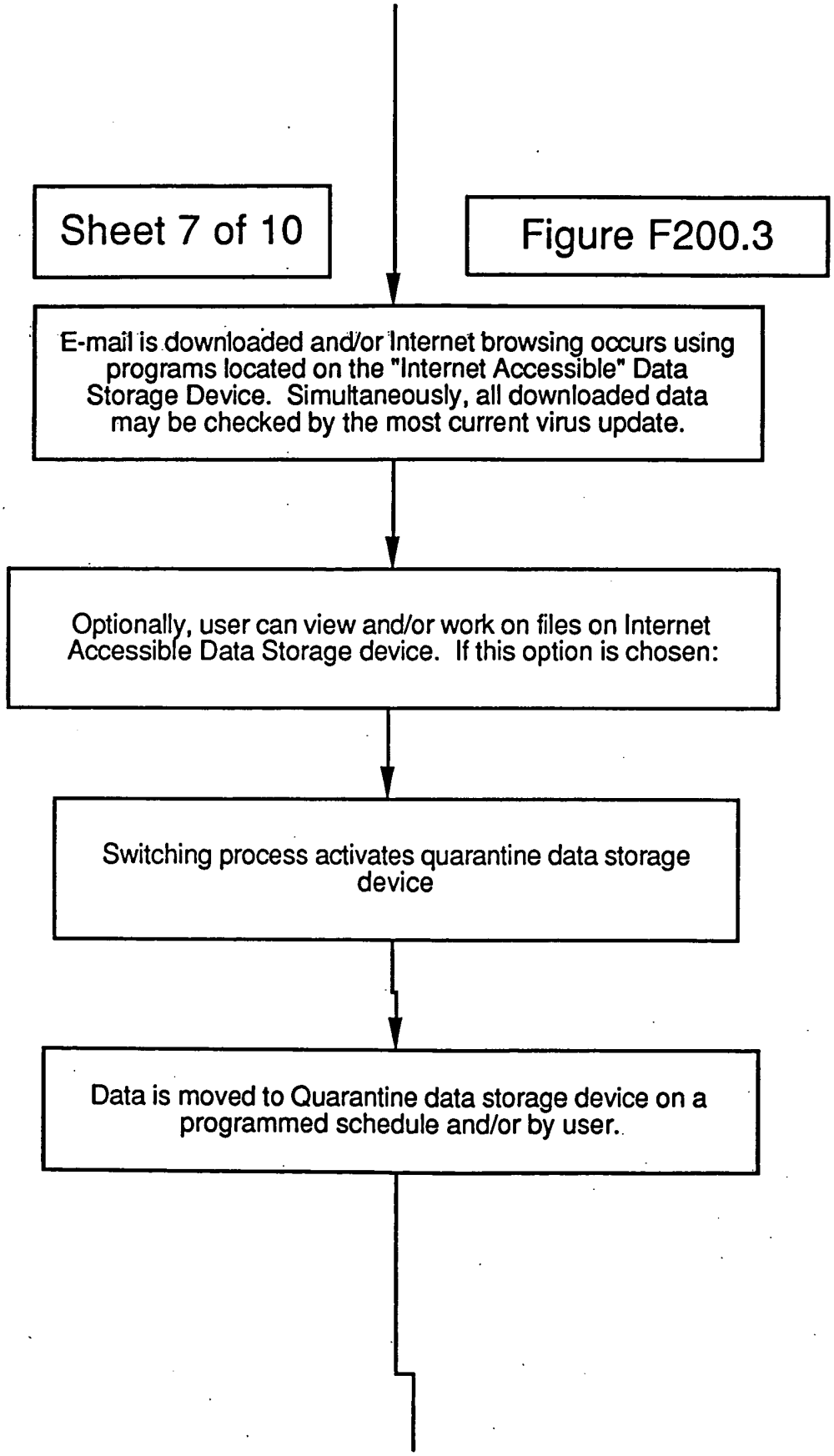

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Figure F200.4

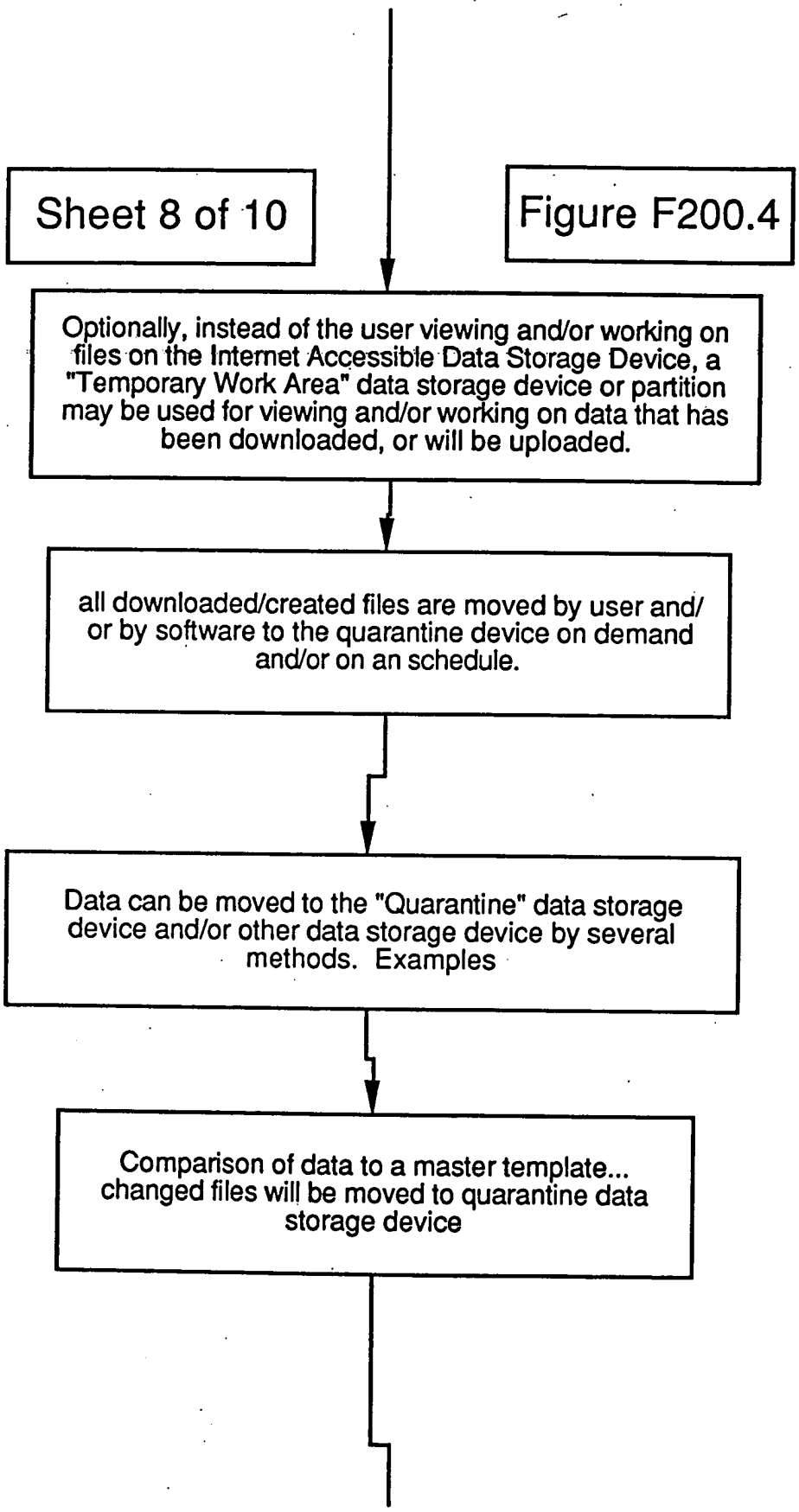

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Figure F200.5

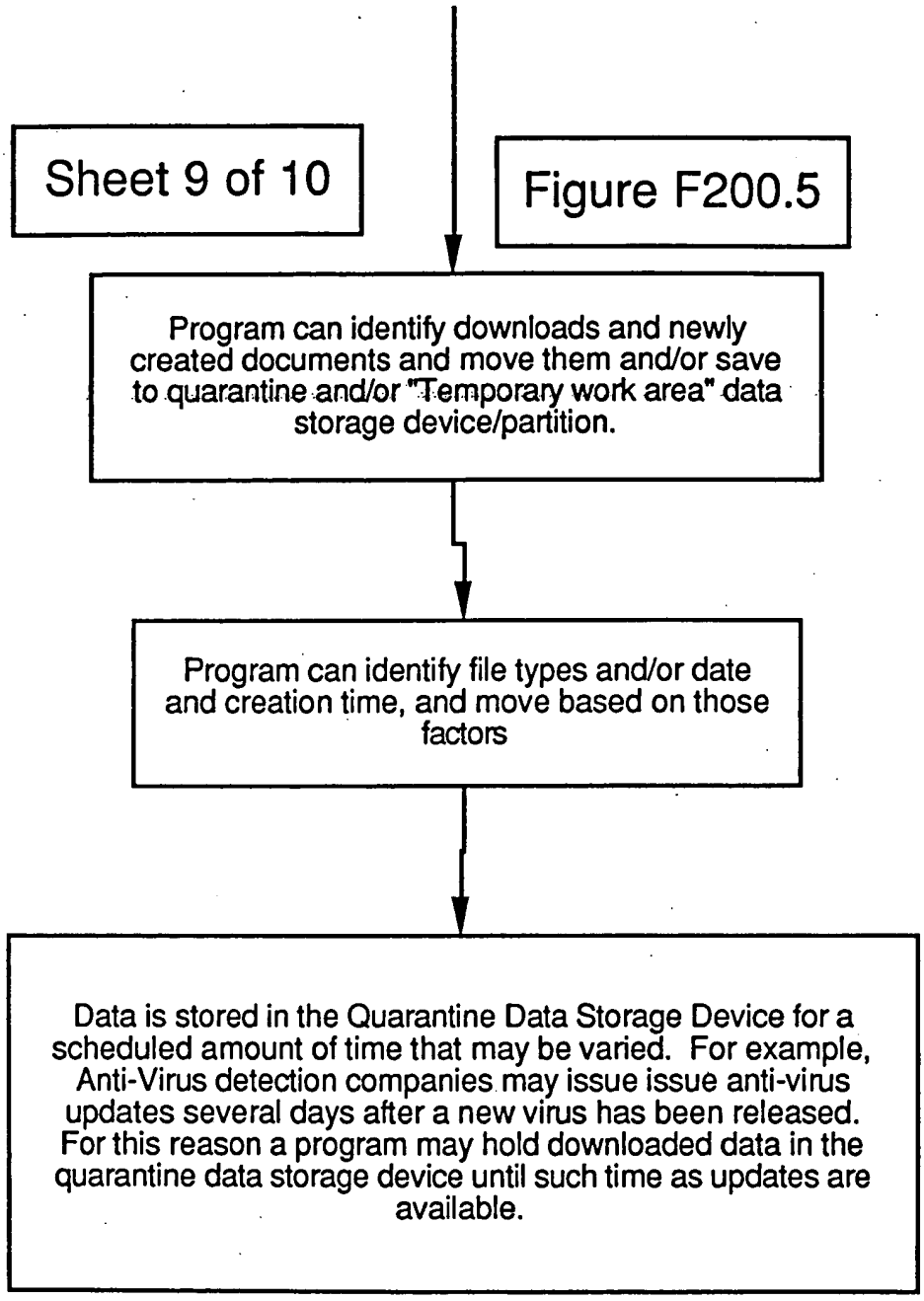
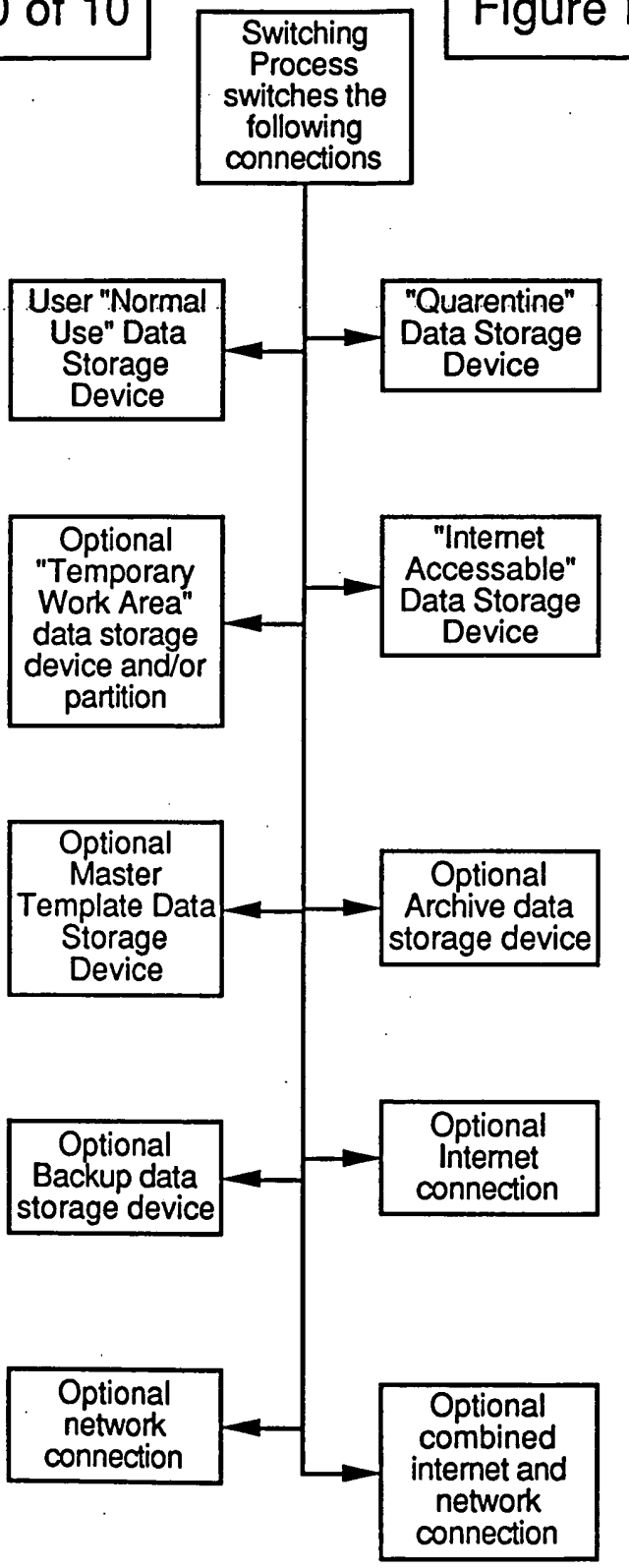
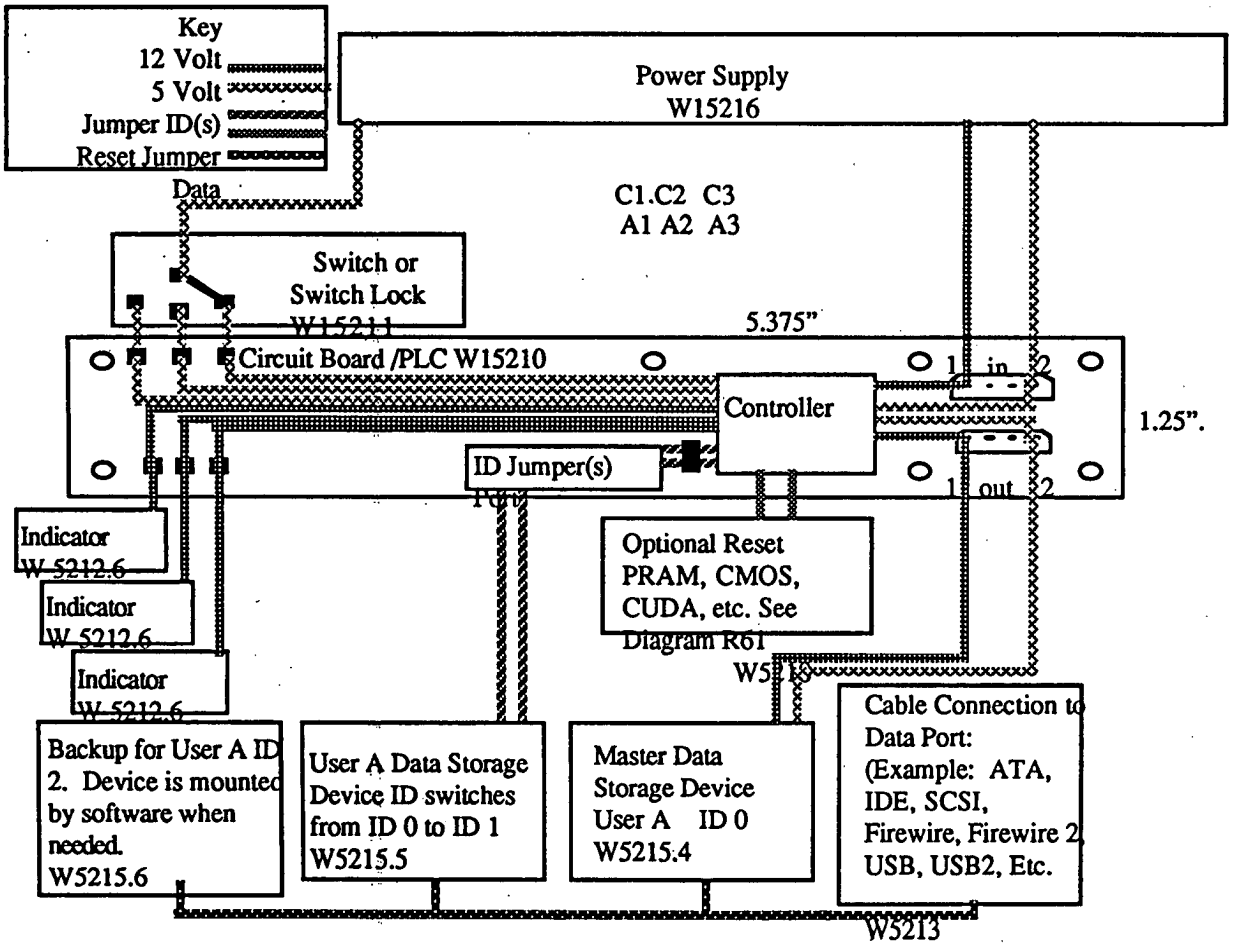


Figure F201


Switching Process switches the following connections
User "Normal Use" Data Storage Device
"Quarentine" Data Storage Device
Optional "Temporary Work Area" data storage device and/or partition
"Internet Accessable" Data Storage Device
Optional Master Template Data Storage Device
Optional Archive data storage device
Optional Backup data storage device
Optional Internet connection
Optional network connection
Optional combined internet and network connection



DRAMUS Figure W40
Single-User & Repair

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Figure W51 Multi-User & Repair & Automatic & Manual Reset

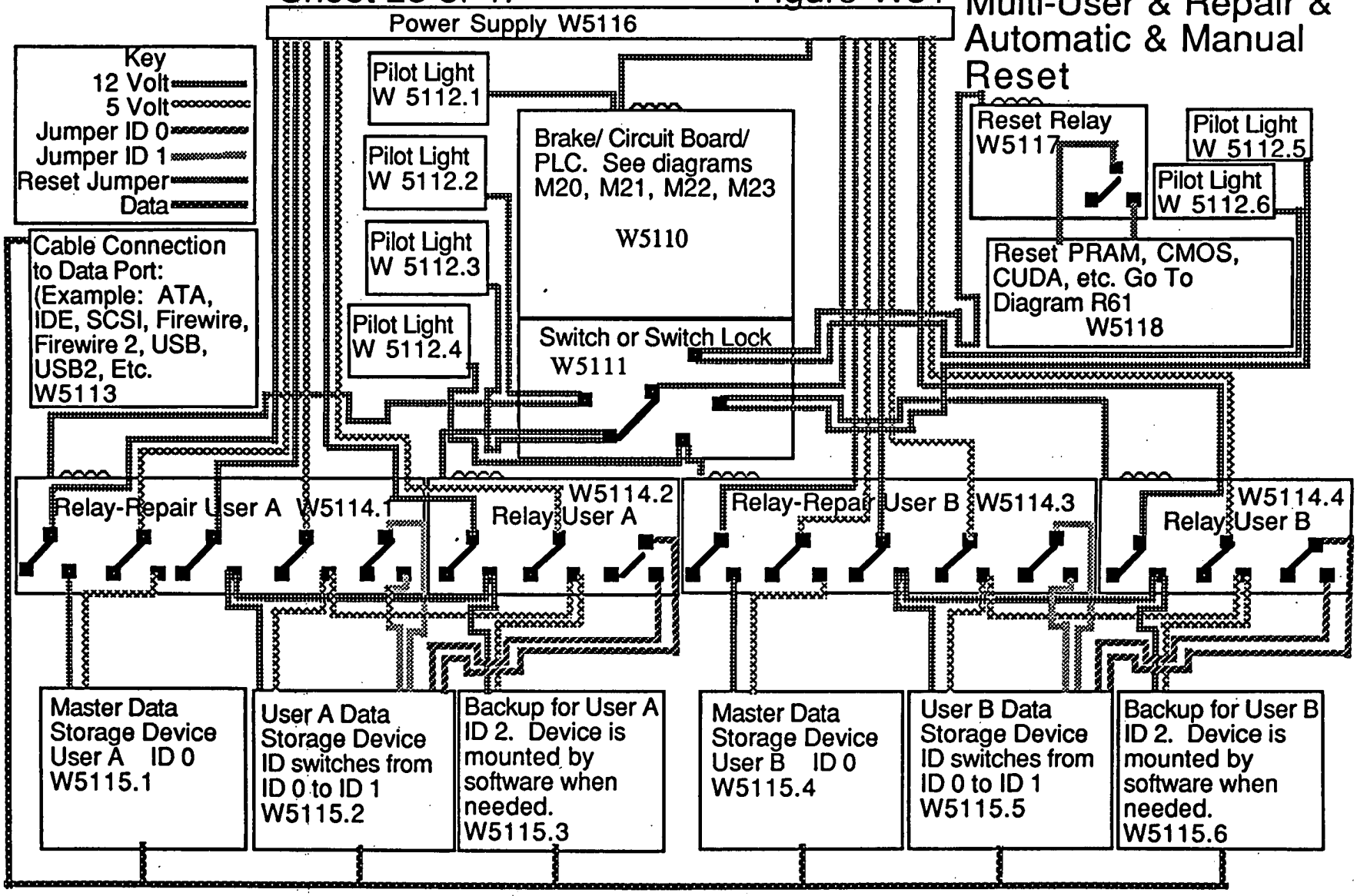
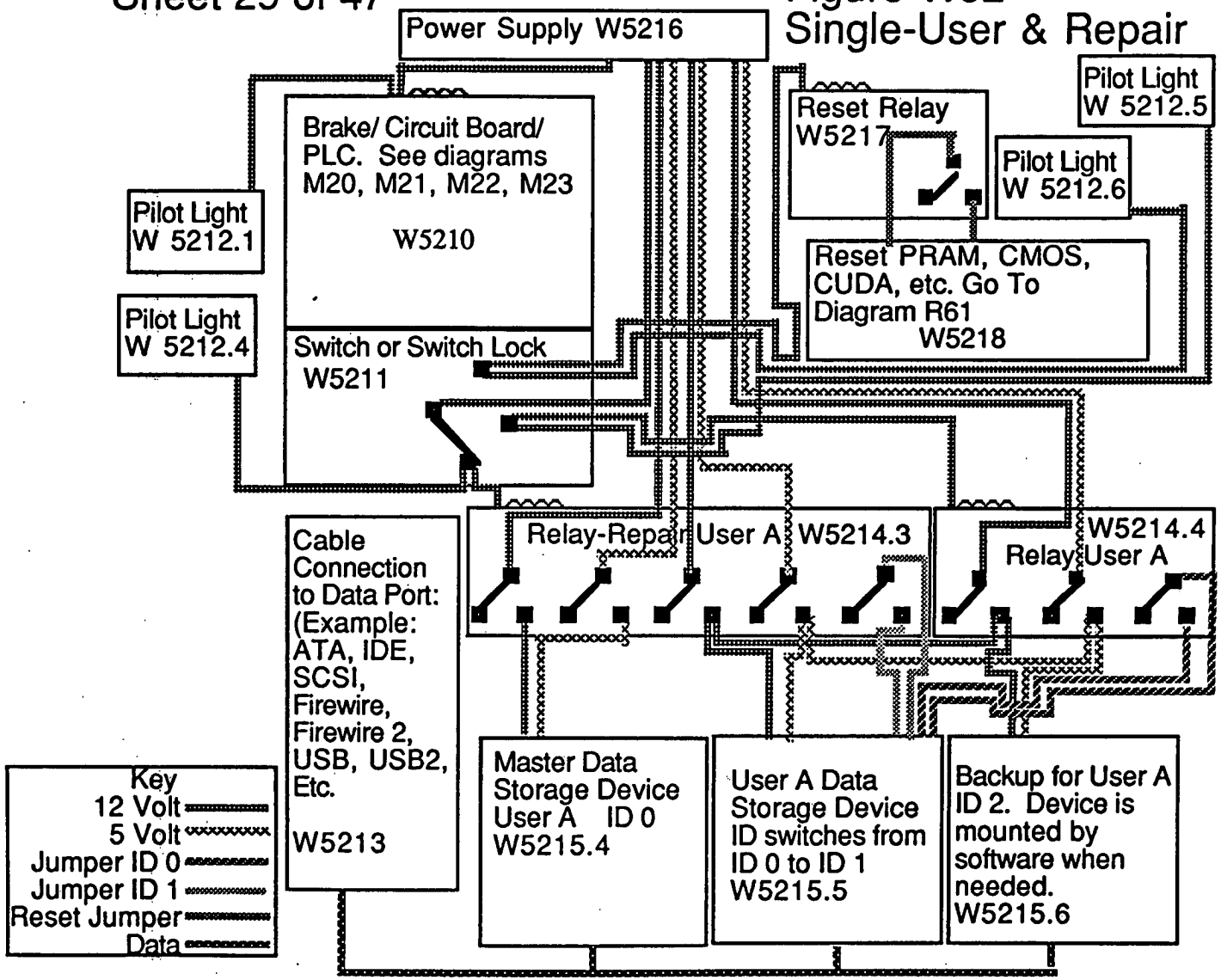


Figure W52
Single-User & Repair



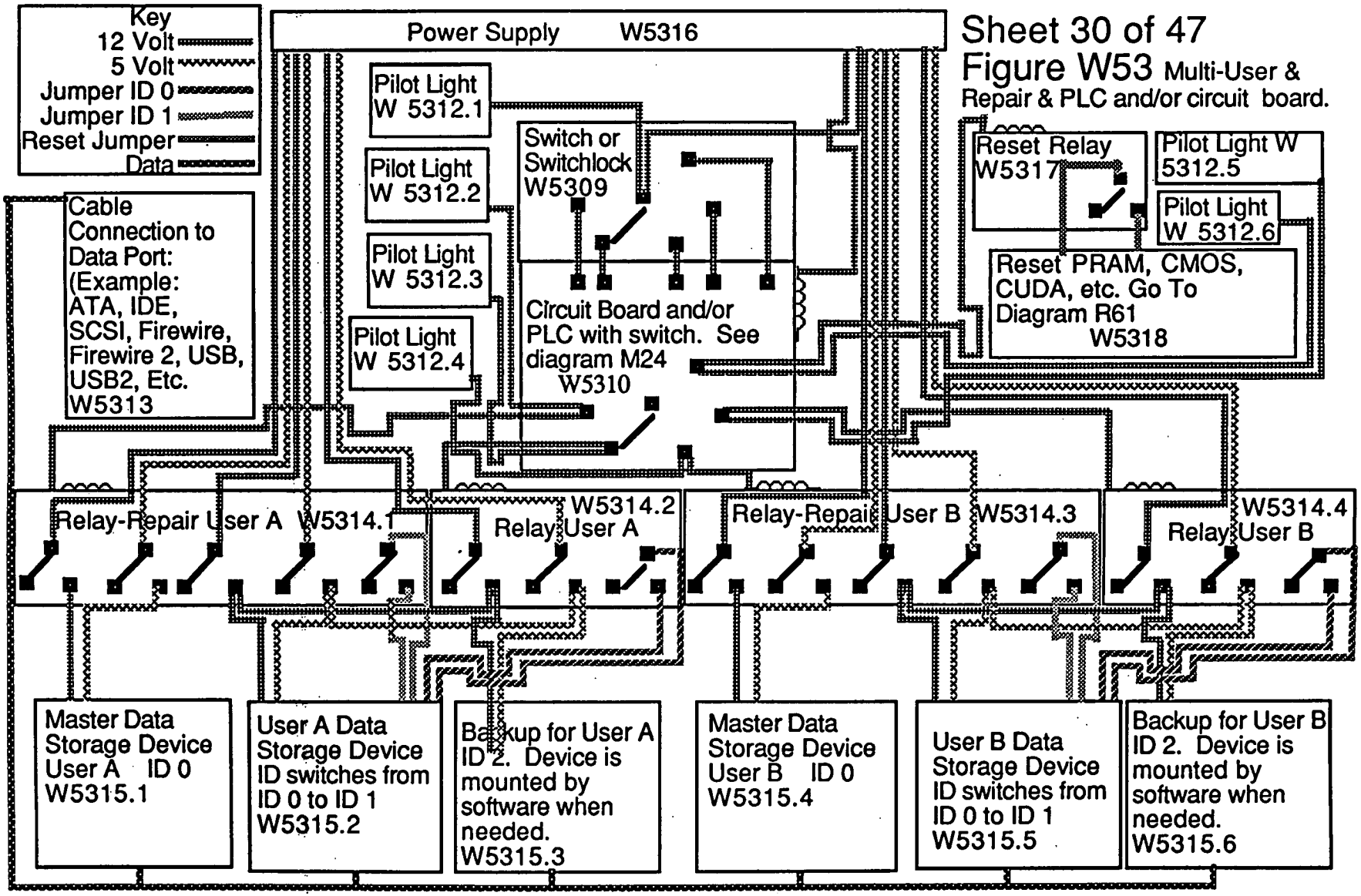


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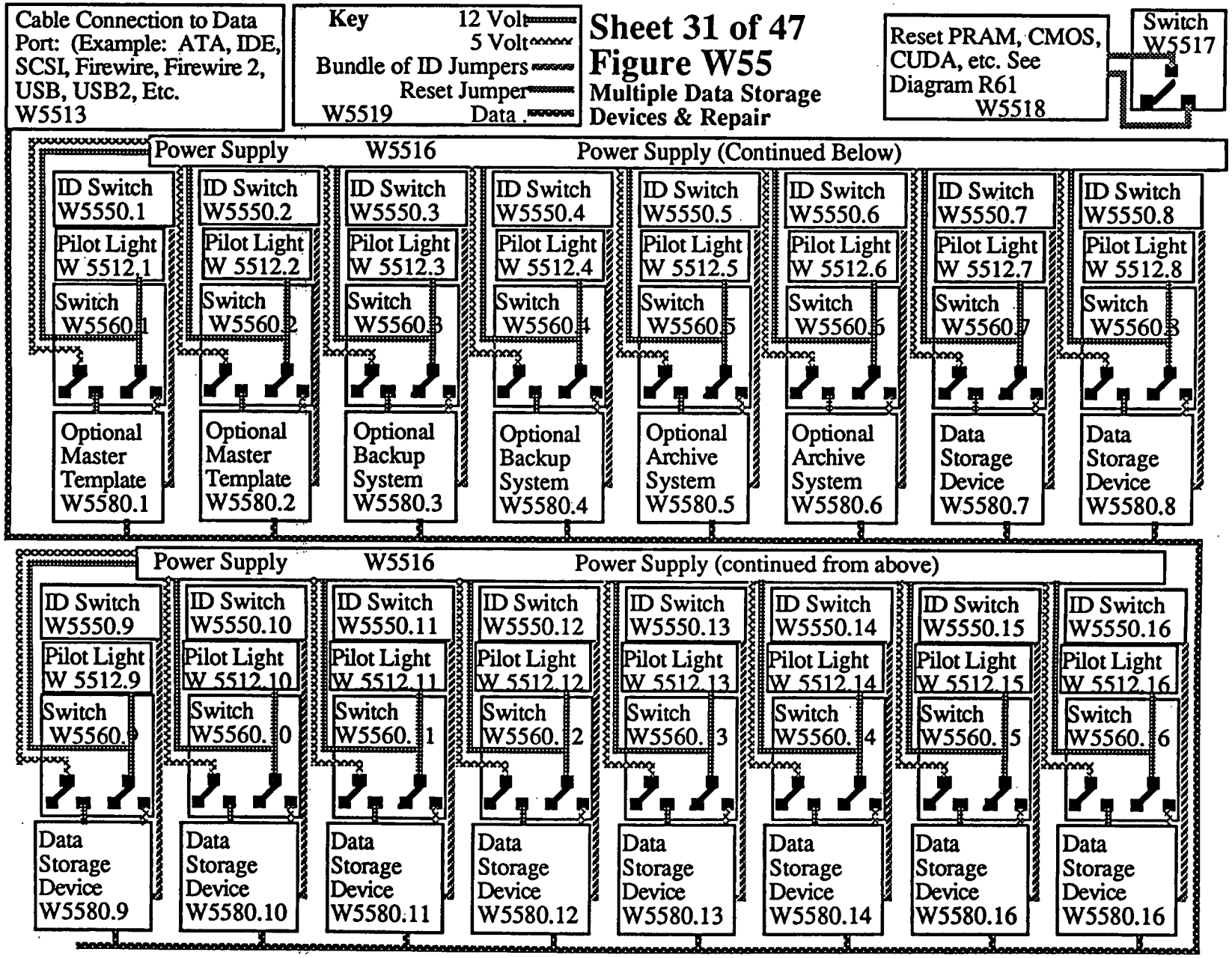
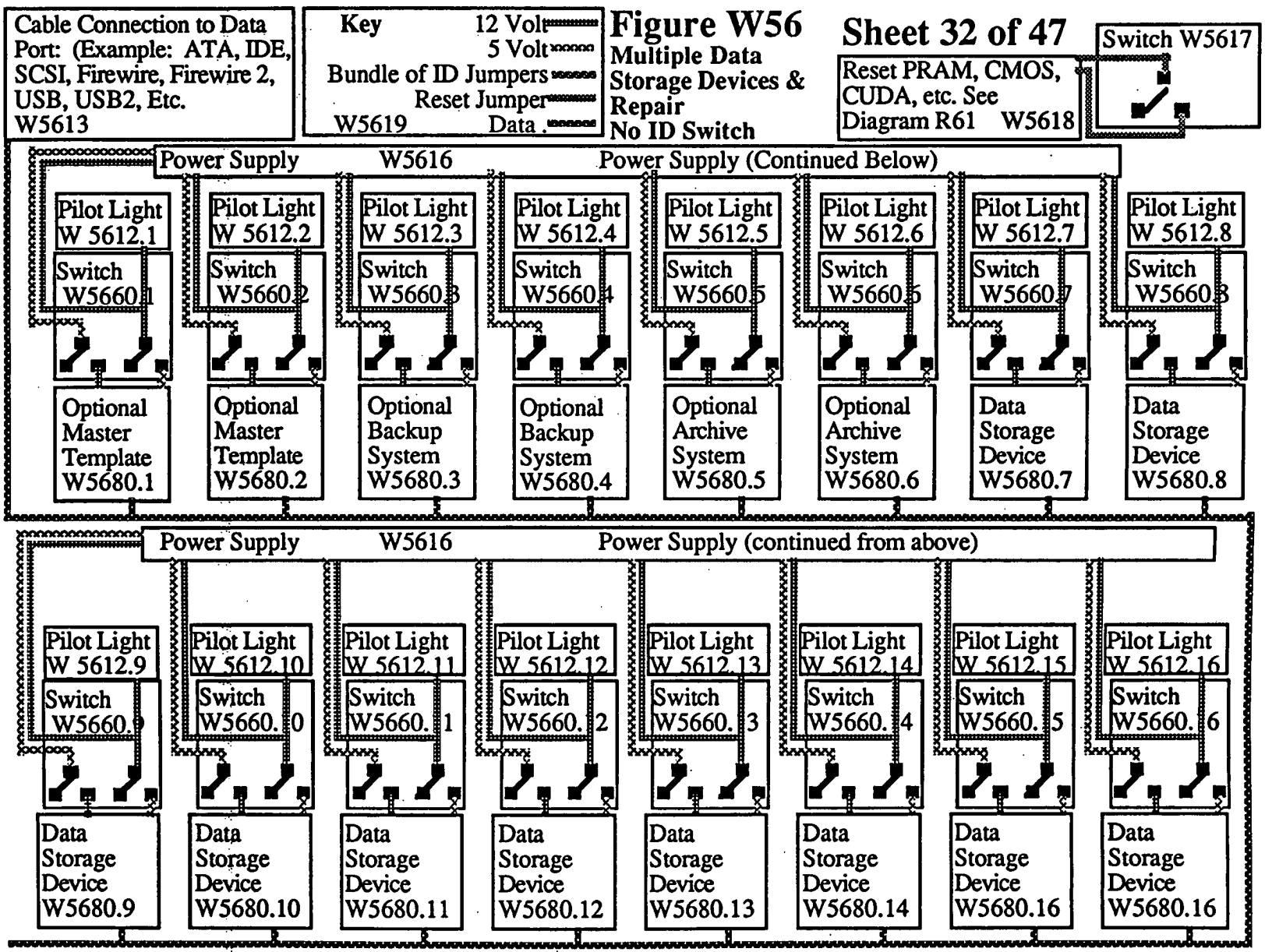
Figure W53 Multi-User & Repair & PLC and/or circuit board.


Cable Connection to Data Port: (Example: ATA, IDE, SCSI, Firewire, Firewire 2, USB, USB2, Etc.
W5513
Key
12 Volt
5 Volt
Bundle of ID Jumpers
Reset Jumper
W5519
Data
Sheet 31 of 47
Figure W55
Multiple Data Storage Devices & Repair
Reset PRAM, CMOS, CUDA, etc. See Diagram R61
W5518
Switch W5517
Power Supply W5516
Power Supply (Continued Below)
ID Switch W5550.1
Pilot Light W 5512.1
Switch W5560.1
Optional Master Template W5580.1
ID Switch W5550.2
Pilot Light W 5512.2
Switch W5560.2
Optional Master Template W5580.2
ID Switch W5550.3
Pilot Light W 5512.3
Switch W5560.3
Optional Backup System W5580.3
ID Switch W5550.4
Pilot Light W 5512.4
Switch W5560.4
Optional Backup System W5580.4
ID Switch W5550.5
Pilot Light W 5512.5
Switch W5560.5
Optional Archive System W5580.5
ID Switch W5550.6
Pilot Light W 5512.6
Switch W5560.6
Optional Archive System W5580.6
ID Switch W5550.7
Pilot Light W 5512.7
Switch W5560.7
Data Storage Device W5580.7
ID Switch W5550.8
Pilot Light W 5512.8
Switch W5560.8
Data Storage Device W5580.8
Power Supply W5516
Power Supply (continued from above)
ID Switch W5550.9
Pilot Light W 5512.9
Switch W5560.9
Data Storage Device W5580.9
ID Switch W5550.10
Pilot Light W 5512.10
Switch W5560.10
Data Storage Device W5580.10
ID Switch W5550.11
Pilot Light W 5512.11
Switch W5560.11
Data Storage Device W5580.11
ID Switch W5550.12
Pilot Light W 5512.12
Switch W5560.12
Data Storage Device W5580.12
ID Switch W5550.13
Pilot Light W 5512.13
Switch W5560.13
Data Storage Device W5580.13
ID Switch W5550.14
Pilot Light W 5512.14
Switch W5560.14
Data Storage Device W5580.14
ID Switch W5550.15
Pilot Light W 5512.15
Switch W5560.15
Data Storage Device W5580.16
ID Switch W5550.16
Pilot Light W 5512.16
Switch W5560.16
Data Storage Device W5580.16


Cable Connection to Data Port: (Example: ATA, IDE, SCSI, Firewire, Firewire 2, USB, USB2, Etc.
W5613
Key
12 Volt
5 Volt
Bundle of ID Jumpers
Reset Jumper
W5619
Data
Figure W56
Multiple Data Storage Devices & Repair
No ID Switch
Sheet 32 of 47
Reset PRAM, CMOS, CUDA, etc. See Diagram R61
W5618
Switch W5617
Power Supply
W5616
Power Supply (Continued Below)
Pilot Light W 5612.1
Pilot Light W 5612.2
Pilot Light W 5612.3
Pilot Light W 5612.4
Pilot Light W 5612.5
Pilot Light W 5612.6
Pilot Light W 5612.7
Pilot Light W 5612.8
Switch W5660.1
Switch W5660.2
Switch W5660.3
Switch W5660.4
Switch W5660.5
Switch W5660.6
Switch W5660.7
Switch W5660.8
Optional Master Template W5680.1
Optional Master Template W5680.2
Optional Backup System W5680.3
Optional Backup System W5680.4
Optional Archive System W5680.5
Optional Archive System W5680.6
Data Storage Device W5680.7
Data Storage Device W5680.8
Power Supply
W5616
Power Supply (continued from above)
Pilot Light W 5612.9
Pilot Light W 5612.10
Pilot Light W 5612.11
Pilot Light W 5612.12
Pilot Light W 5612.13
Pilot Light W 5612.14
Pilot Light W 5612.15
Pilot Light W 5612.16
Switch W5660.9
Switch W5660.10
Switch W5660.11
Switch W5660.12
Switch W5660.13
Switch W5660.14
Switch W5660.15
Switch W5660.16
Data Storage Device W5680.9
Data Storage Device W5680.10
Data Storage Device W5680.11
Data Storage Device W5680.12
Data Storage Device W5680.13
Data Storage Device W5680.14
Data Storage Device W5680.16
Data Storage Device W5680.16

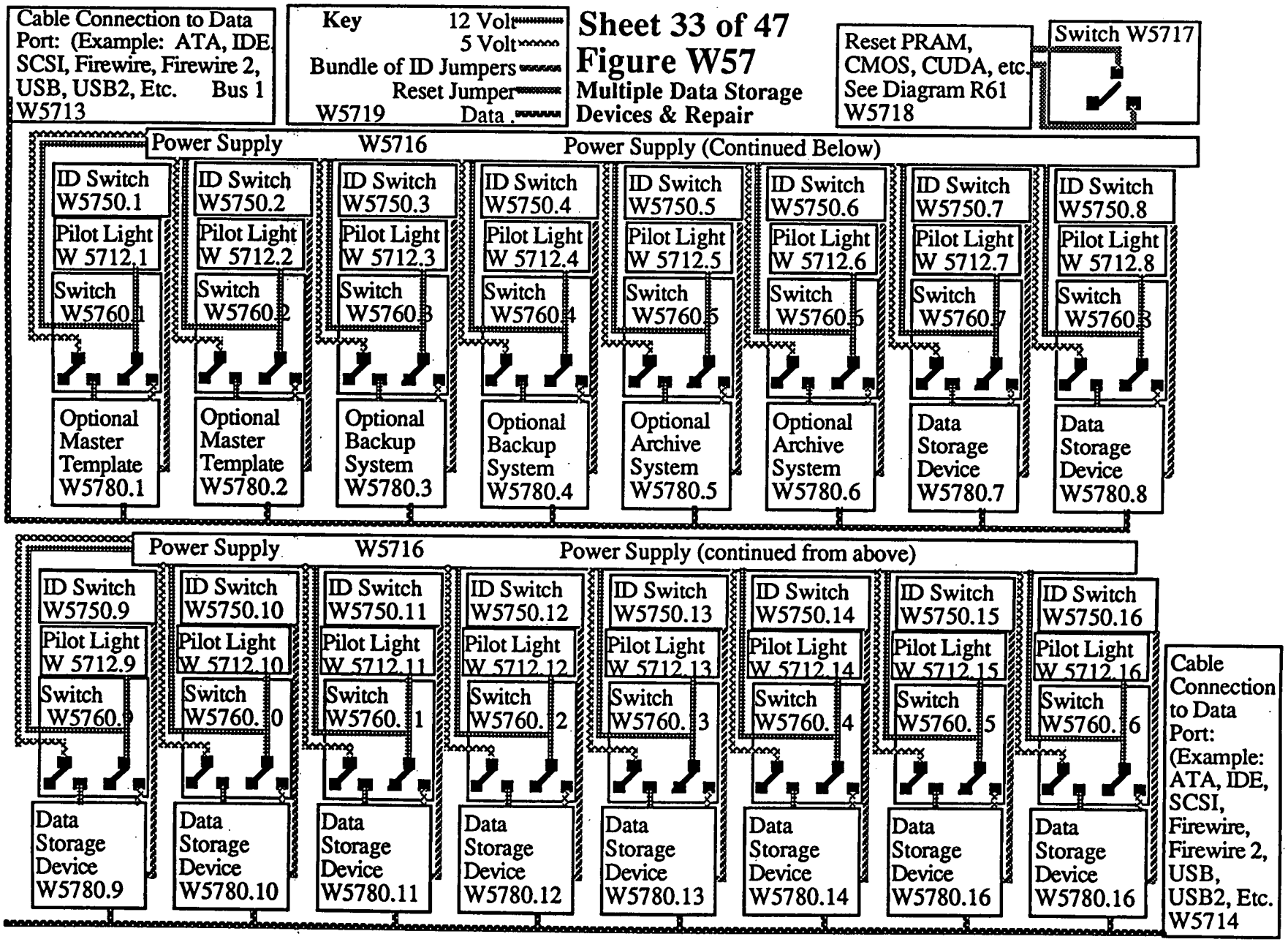
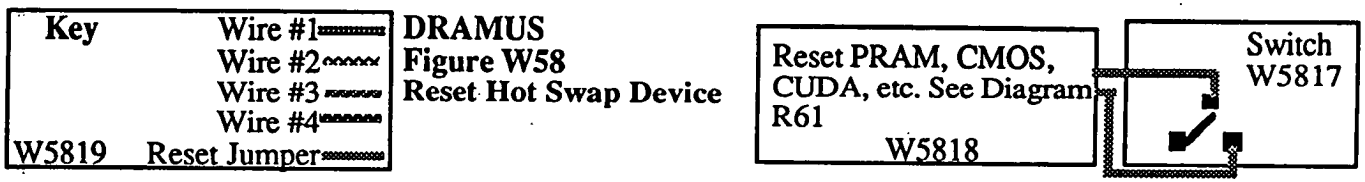

Cable Connection to Data Port: (Example: ATA, IDE, SCSI, Firewire, Firewire 2, USB, USB2, Etc. Bus 1 W5713
Key
12 Volt
5 Volt
Bundle of ID Jumpers
Reset Jumper
W5719
Data
Sheet 33 of 47
Figure W57
Multiple Data Storage Devices & Repair
Reset PRAM, CMOS, CUDA, etc. See Diagram R61 W5718
Switch W5717
Power Supply W5716
Power Supply (Continued Below)
ID Switch W5750.1
Pilot Light W 5712.1
Switch W5760.1
Optional Master Template W5780.1
ID Switch W5750.2
Pilot Light W 5712.2
Switch W5760.2
Optional Master Template W5780.2
ID Switch W5750.3
Pilot Light W 5712.3
Switch W5760.3
Optional Backup System W5780.3
ID Switch W5750.4
Pilot Light W 5712.4
Switch W5760.4
Optional Backup System W5780.4
ID Switch W5750.5
Pilot Light W 5712.5
Switch W5760.5
Optional Archive System W5780.5
ID Switch W5750.6
Pilot Light W 5712.6
Switch W5760.6
Optional Archive System W5780.6
ID Switch W5750.7
Pilot Light W 5712.7
Switch W5760.7
Data Storage Device W5780.7
ID Switch W5750.8
Pilot Light W 5712.8
Switch W5760.8
Data Storage Device W5780.8
Power Supply W5716
Power Supply (continued from above)
ID Switch W5750.9
Pilot Light W 5712.9
Switch W5760.9
Data Storage Device W5780.9
ID Switch W5750.10
Pilot Light W 5712.10
Switch W5760.10
Data Storage Device W5780.10
ID Switch W5750.11
Pilot Light W 5712.11
Switch W5760.11
Data Storage Device W5780.11
ID Switch W5750.12
Pilot Light W 5712.12
Switch W5760.12
Data Storage Device W5780.12
ID Switch W5750.13
Pilot Light W 5712.13
Switch W5760.13
Data Storage Device W5780.13
ID Switch W5750.14
Pilot Light W 5712.14
Switch W5760.14
Data Storage Device W5780.14
ID Switch W5750.15
Pilot Light W 5712.15
Switch W5760.15
Data Storage Device W5780.16
ID Switch W5750.16
Pilot Light W 5712.16
Switch W5760.16
Data Storage Device W5780.16
Cable Connection to Data Port: (Example: ATA, IDE, SCSI, Firewire, Firewire 2, USB, USB2, Etc. W5714

Figure W58


Key
Wire #1
Wire #2
Wire #3
Wire #4
W5819 Reset Jumper
DRAMUS
Figure W58
Reset Hot Swap Device
Reset PRAM, CMOS, CUDA, etc. See Diagram R61
W5818
Switch W5817

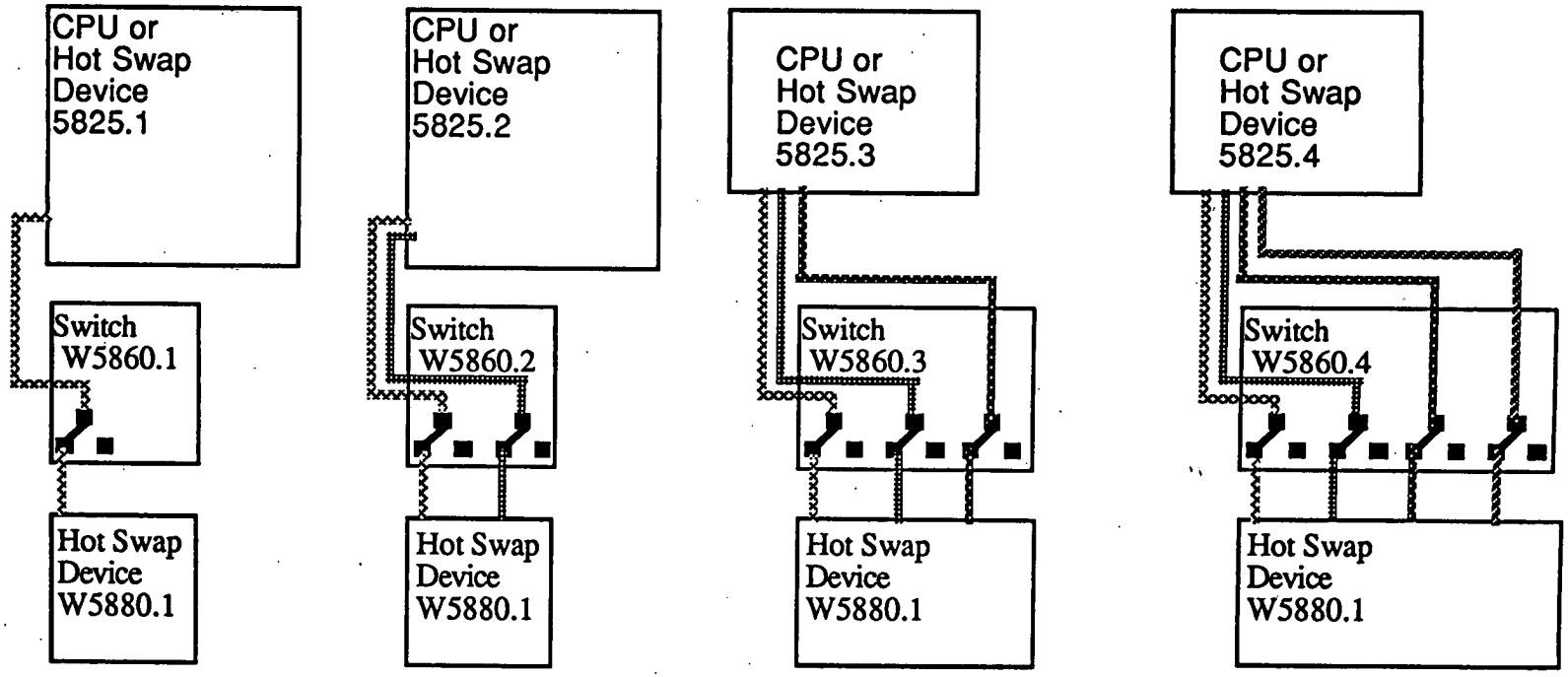
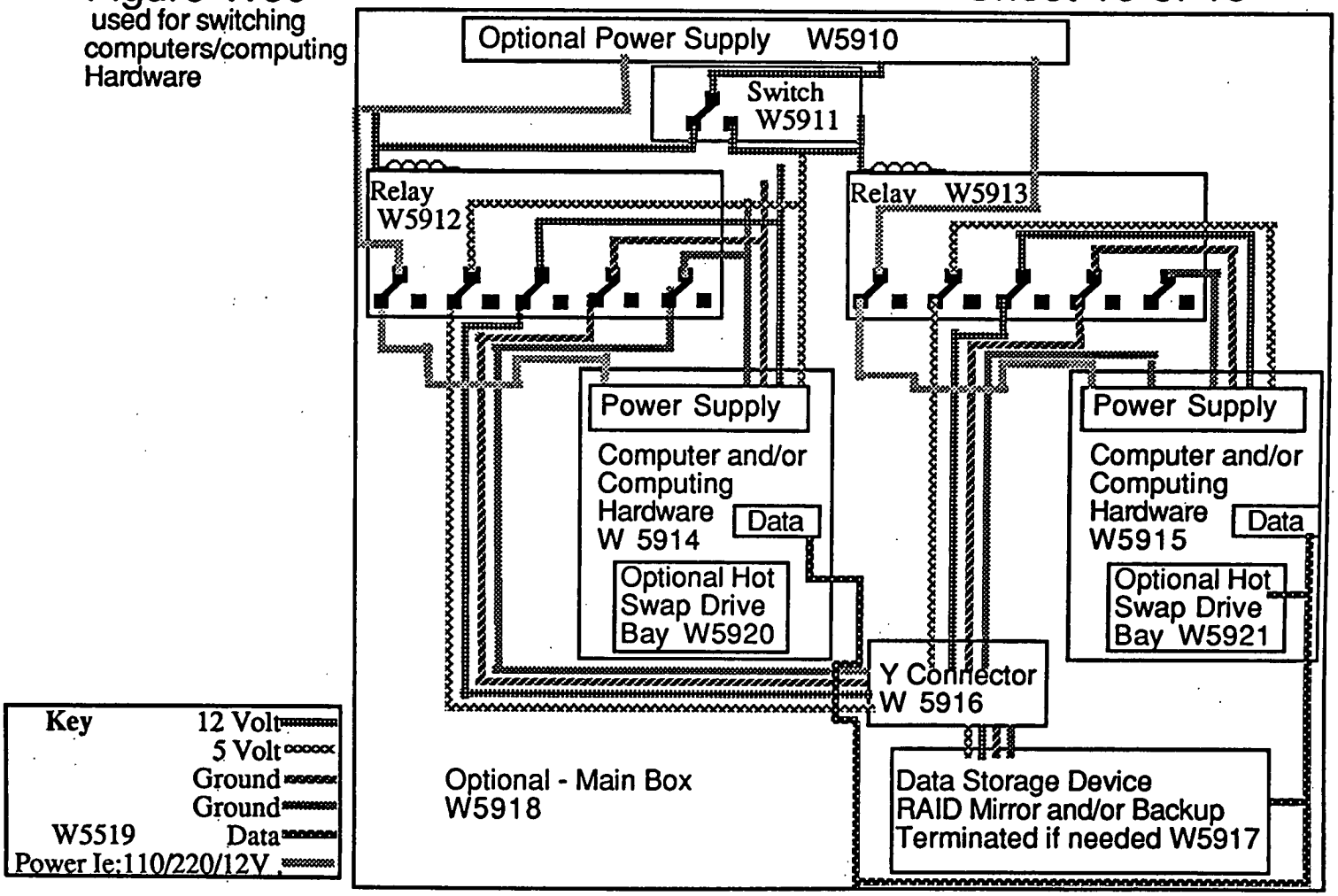

CPU or Hot Swap Device 5825.1
Switch W5860.1
Hot Swap Device W5880.1
CPU or Hot Swap Device 5825.2
Switch W5860.2
Hot Swap Device W5880.1
CPU or Hot Swap Device 5825.3
Switch W5860.3
Hot Swap Device W5880.1
CPU or Hot Swap Device 5825.4
Switch W5860.4
Hot Swap Device W5880.1

Figure W59
used for switching computers/computing Hardware



Sheet 7 of 15

Figure W60

Switching between computers and/or computing hardware. Also see figure 61.

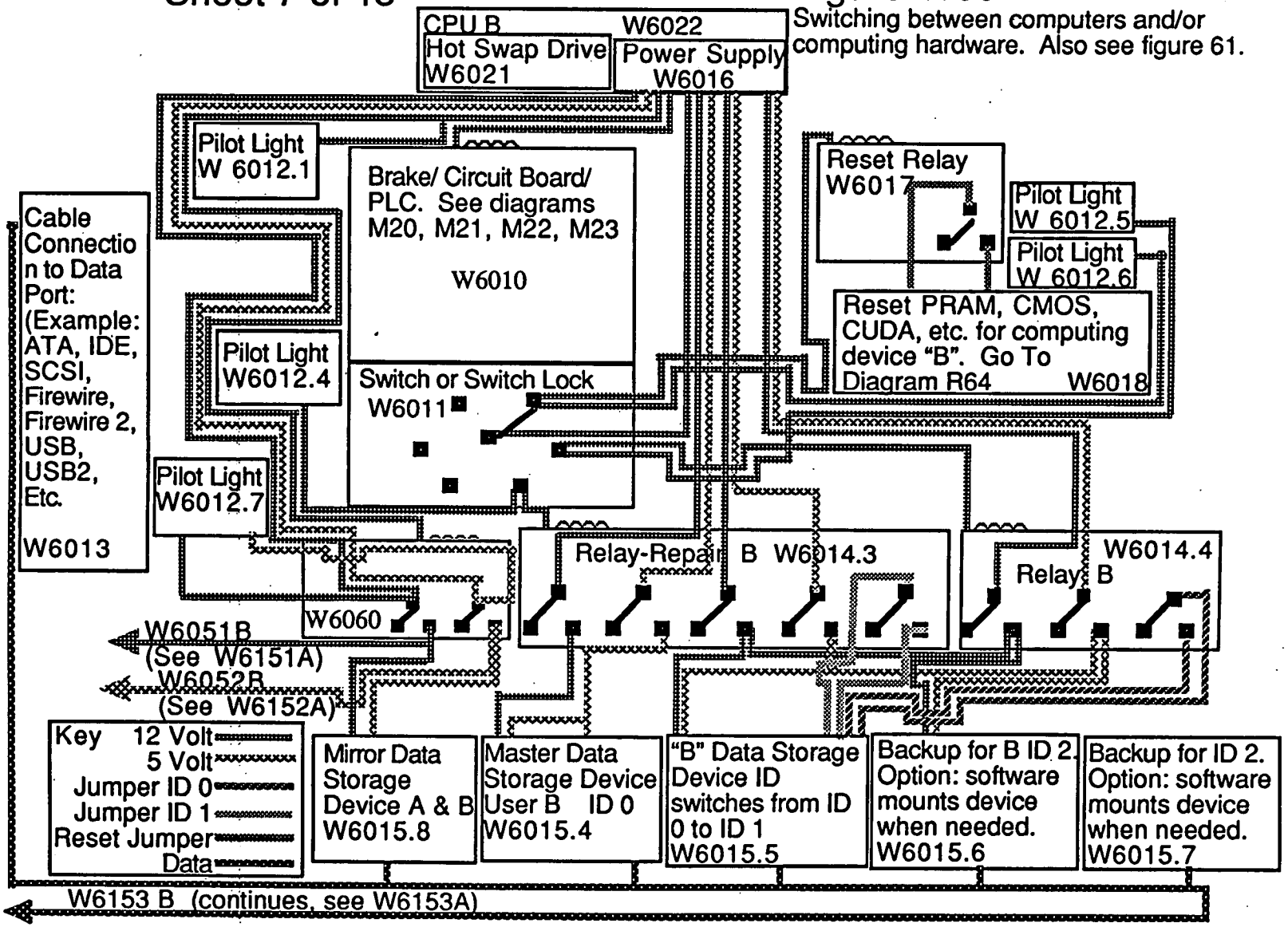


Figure W61

Switching between computers and/or computing hardware.

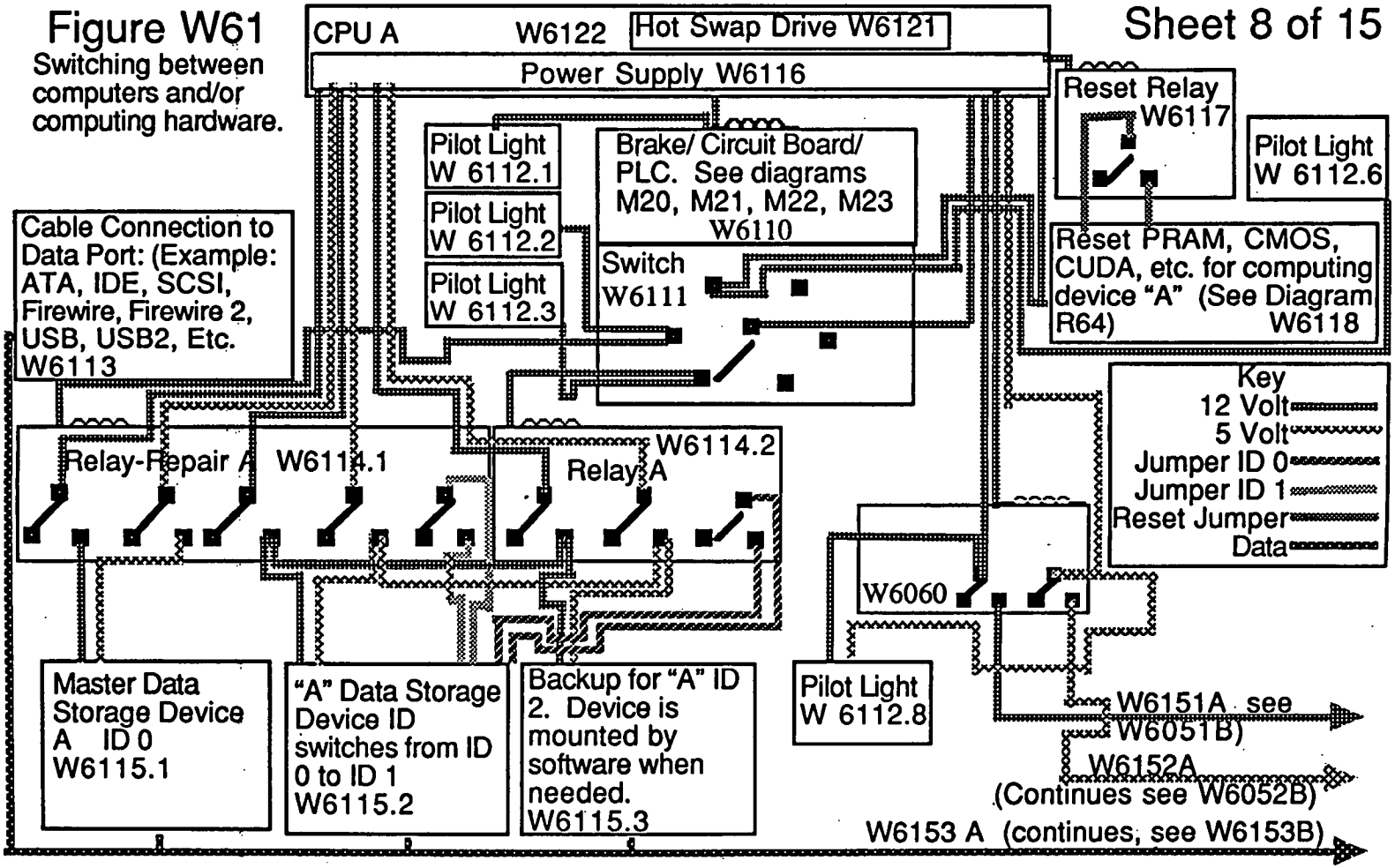


Figure W62

used for switching computers and/or computing Hardware

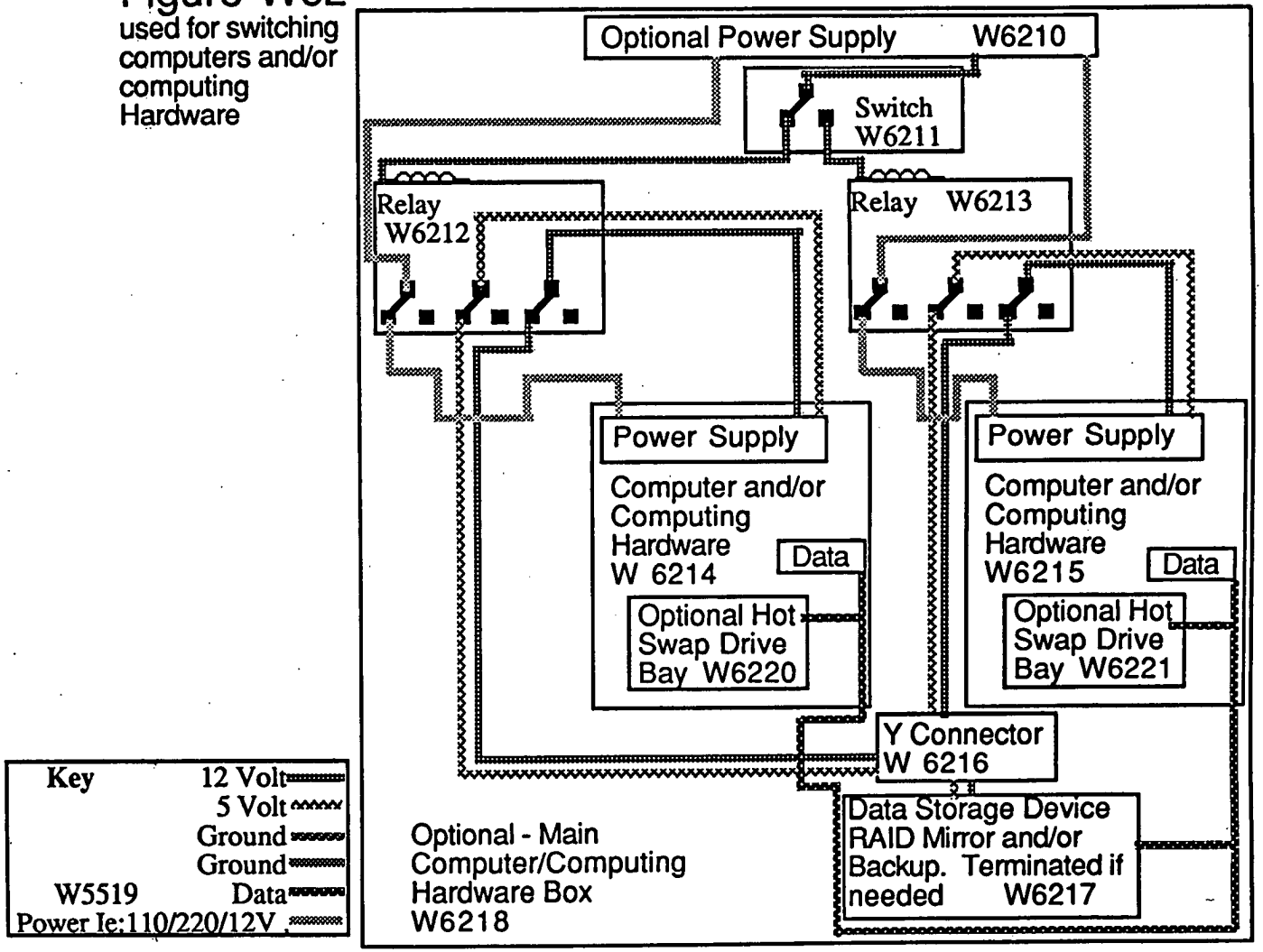
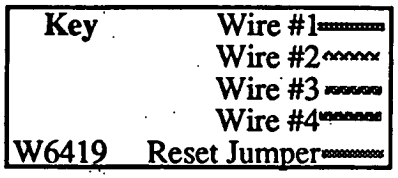
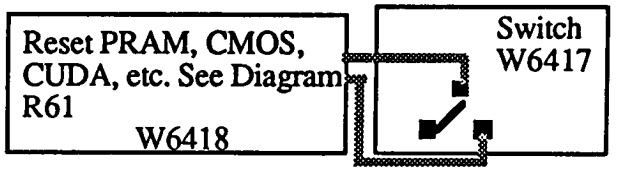
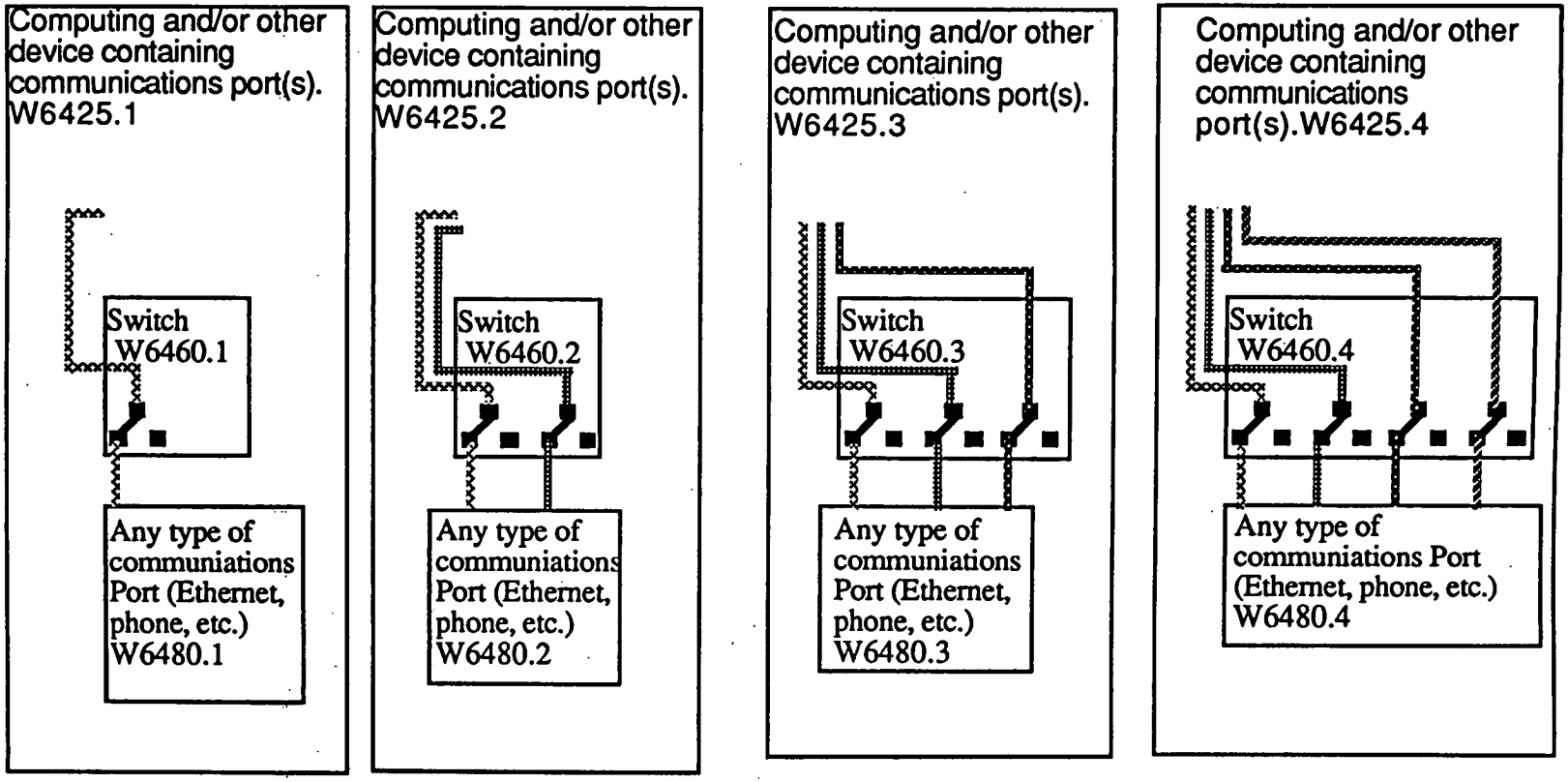


Figure W64



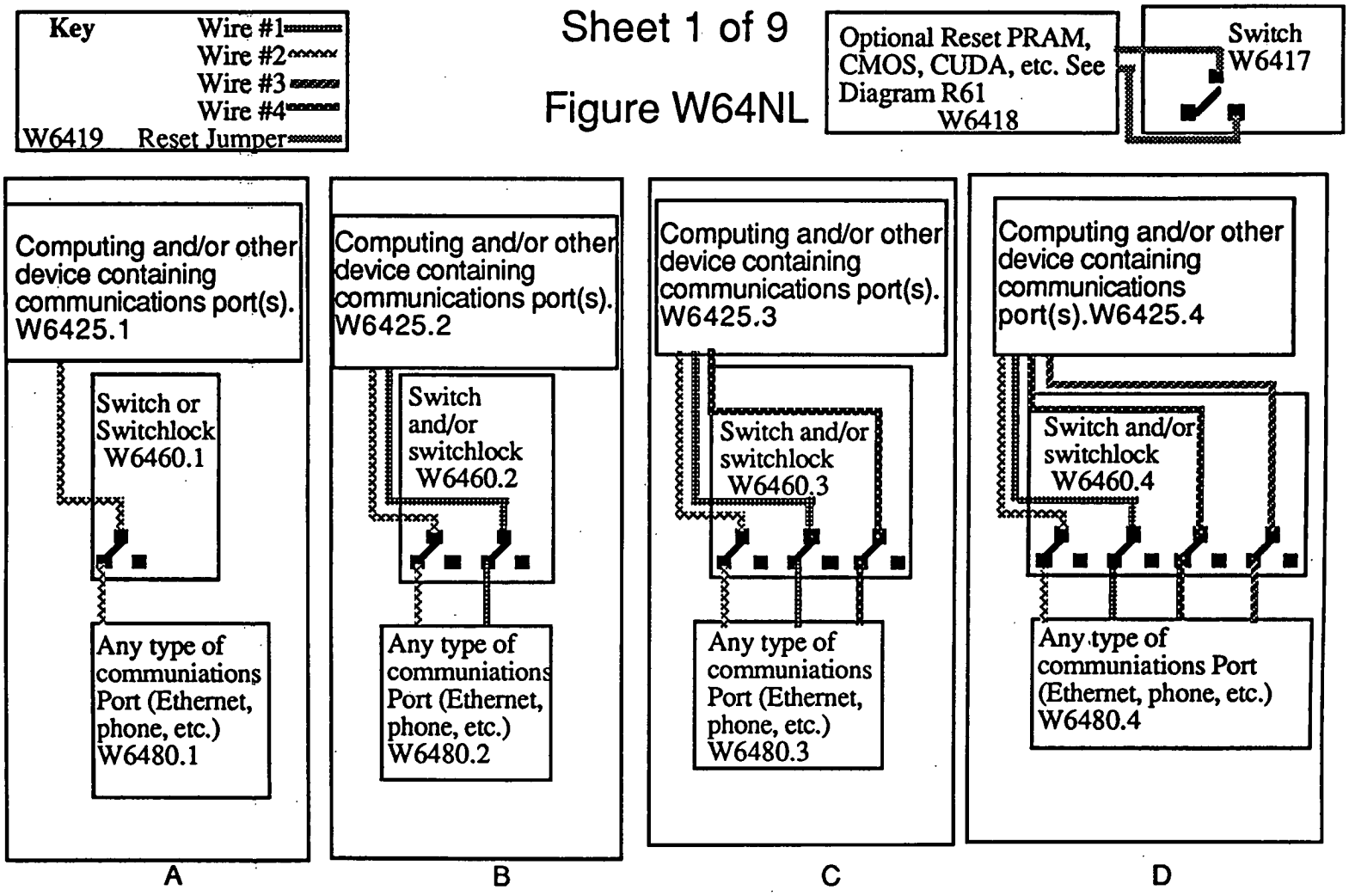
DRAMUS
Figure W64
Switch connection to global computer/communication network, and other networks.

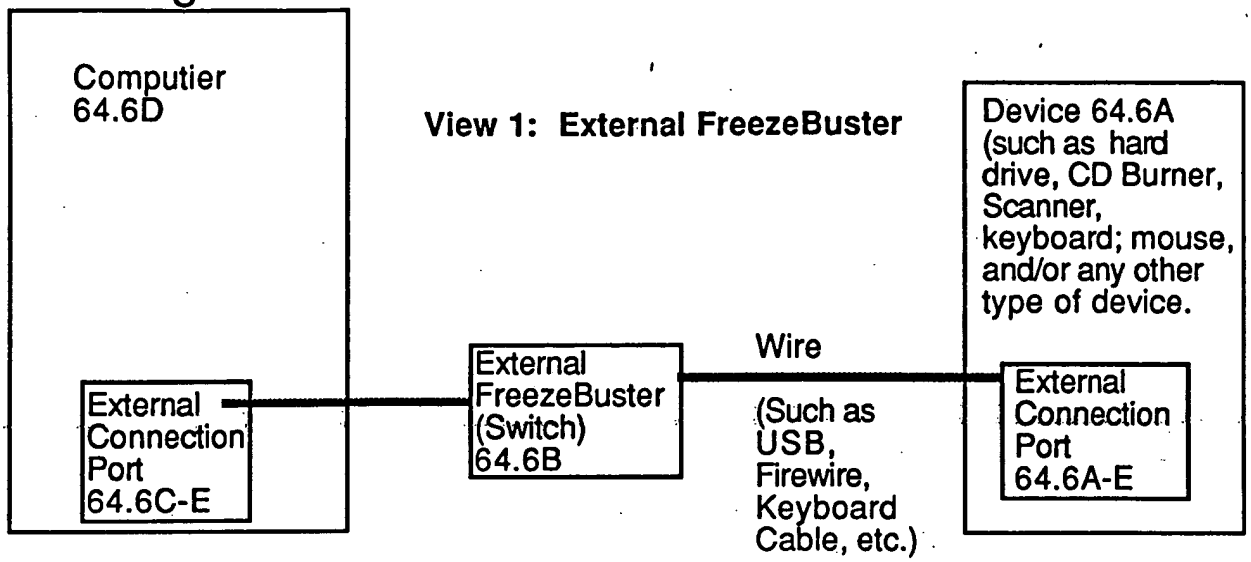




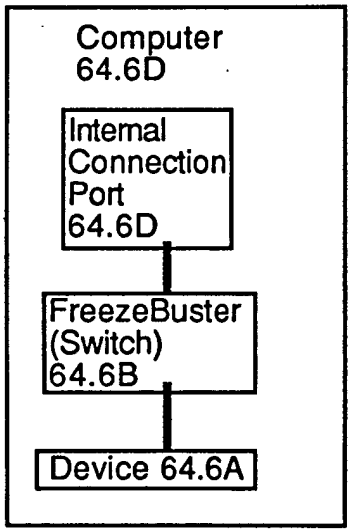
Sheet 1 of 9

Figure W64NL

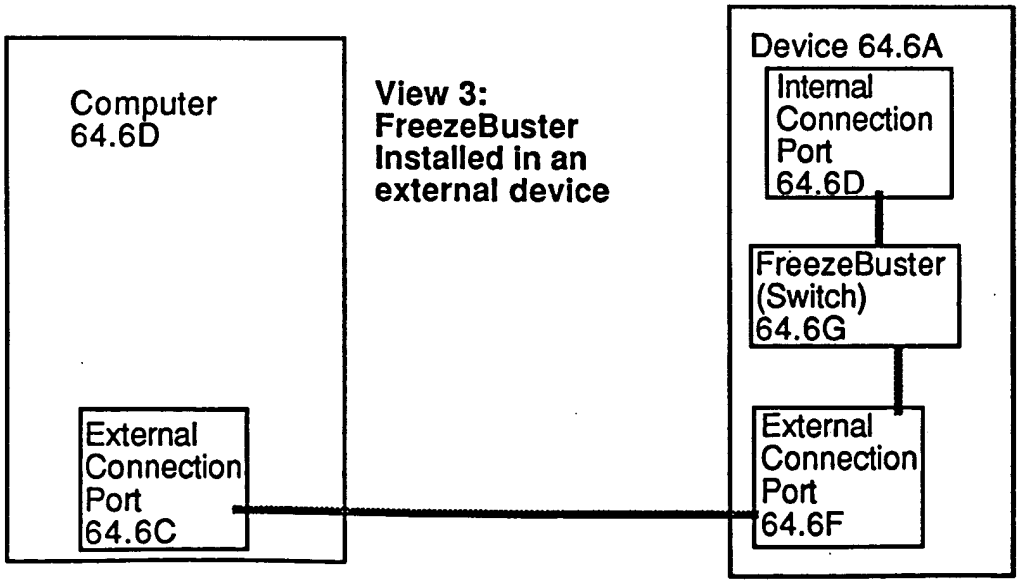




View 1: External FreezeBuster



View 2: FreezeBuster Installed in a Computer



View 3: FreezeBuster Installed in an external device

Figure W65

DRAMUS used for switching computers/computing Hardware
Separate "anti-virus" E-mail CPU with separate "non-Email CPU"

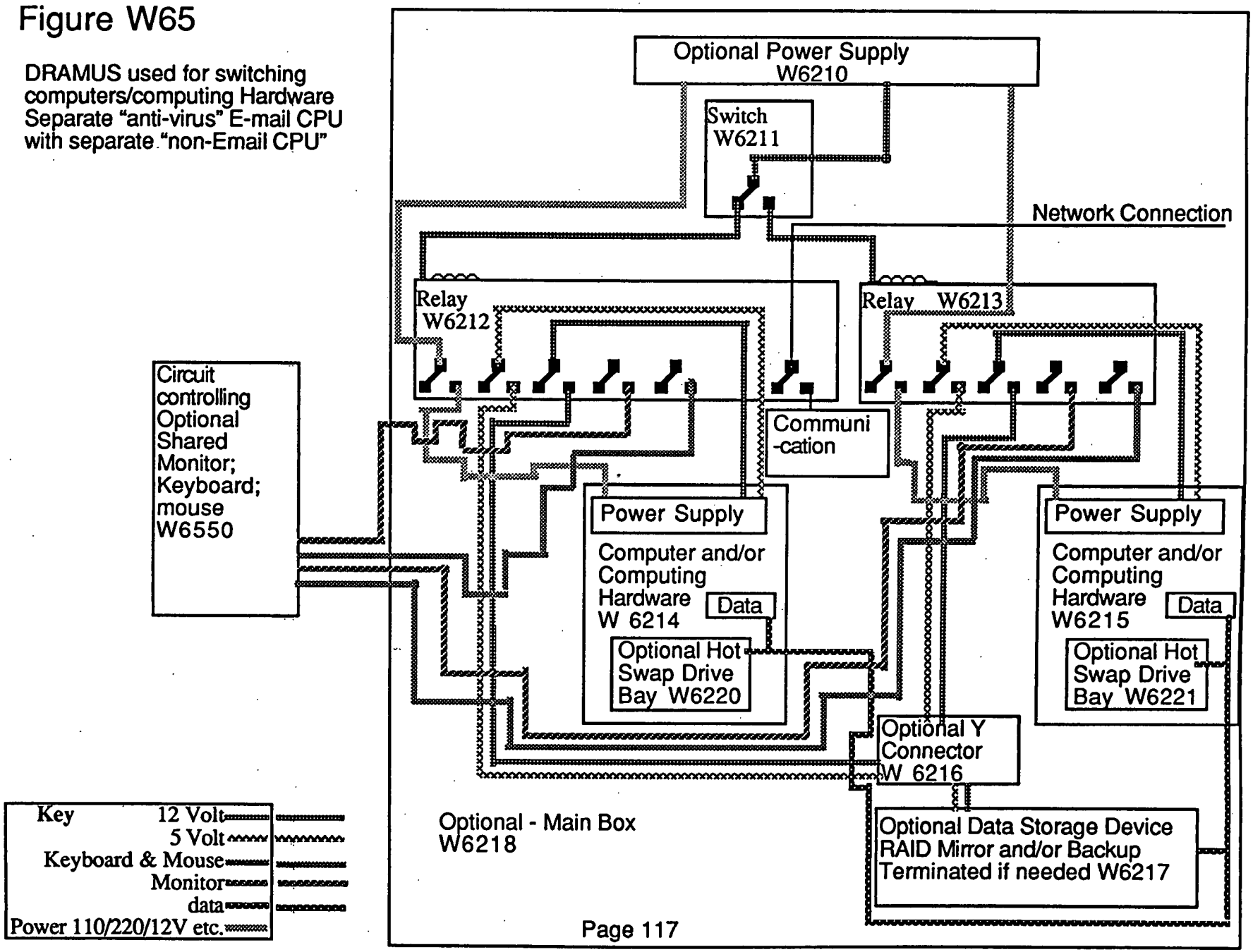
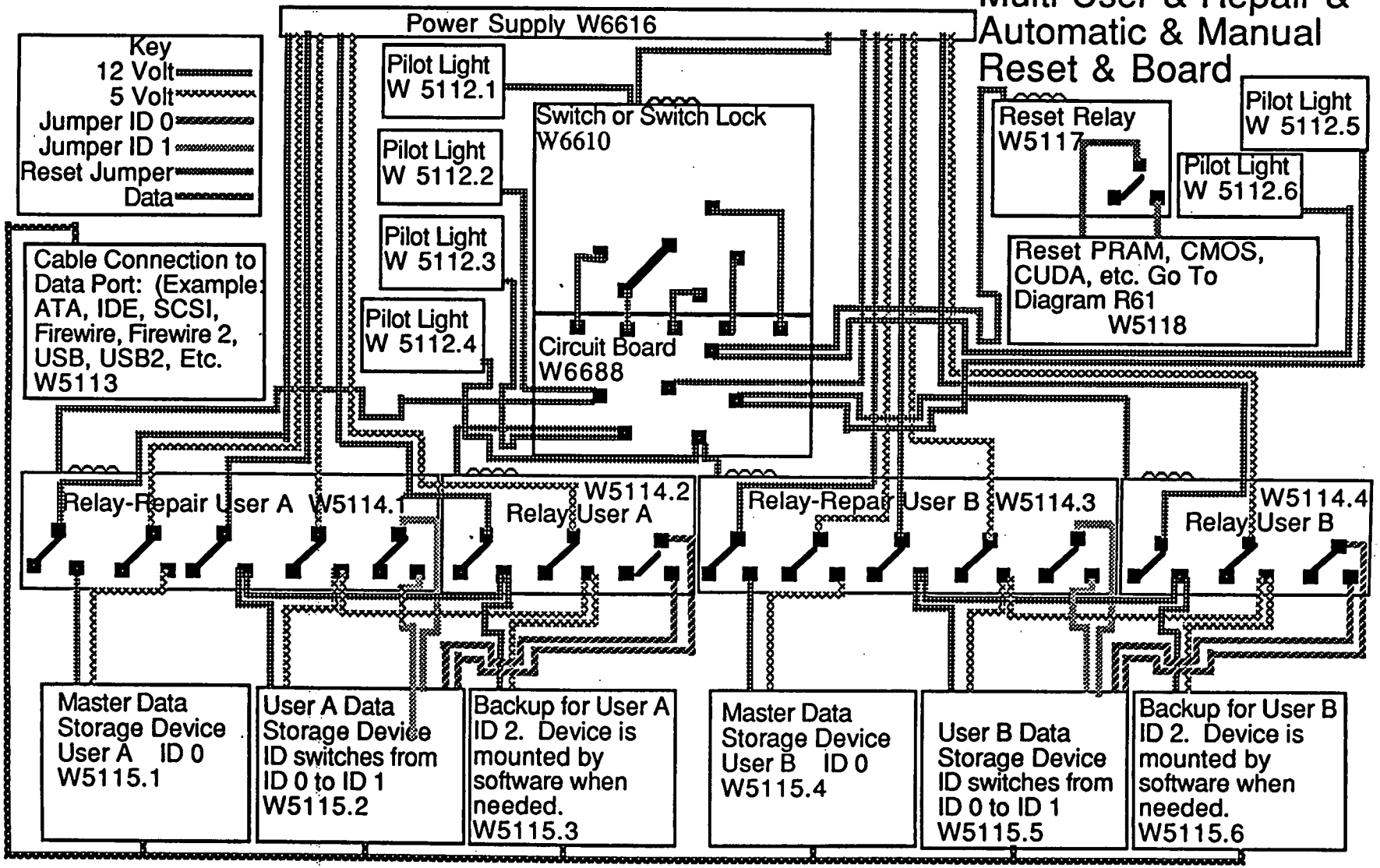


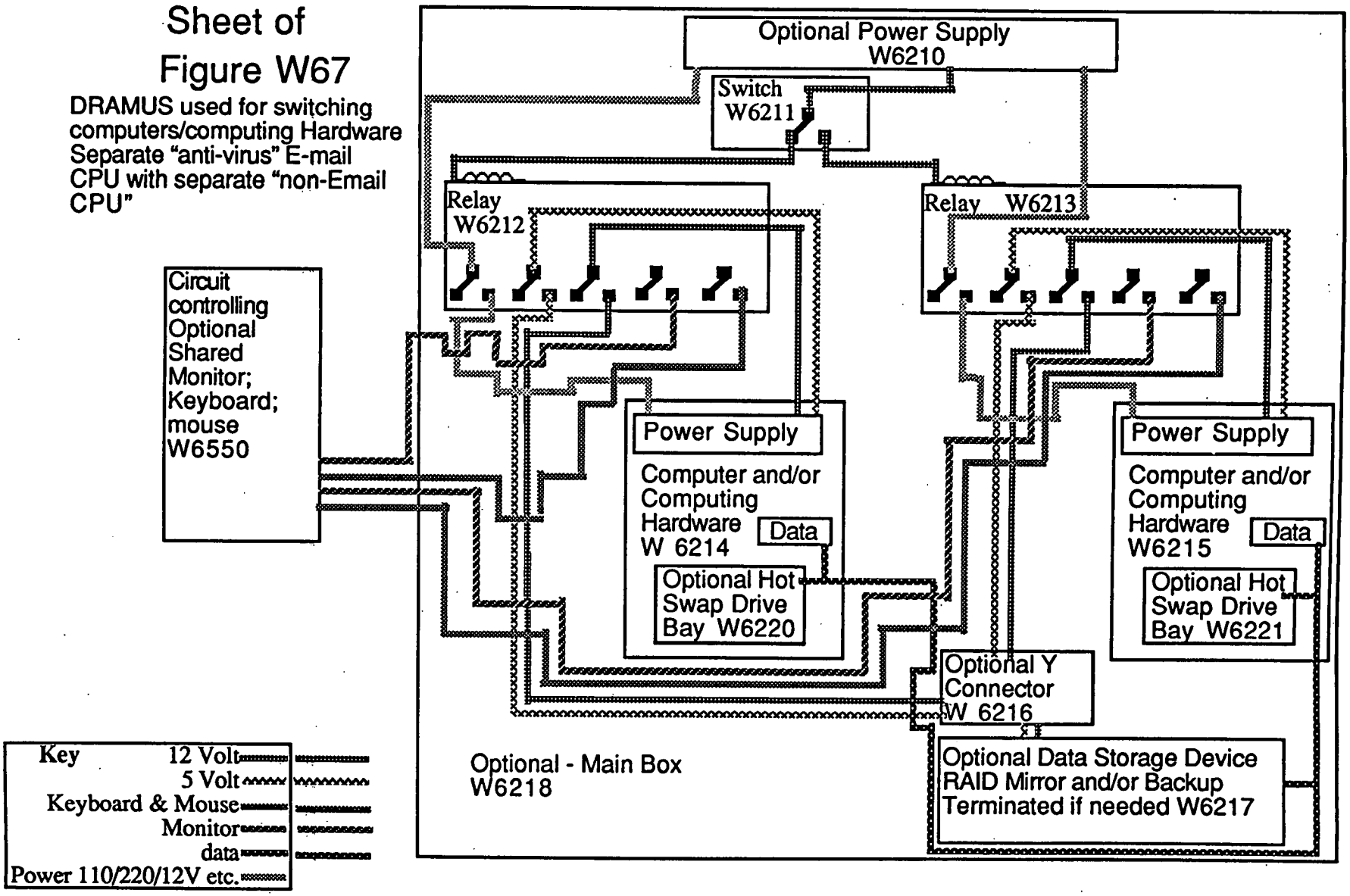
Figure W66
Multi-User & Repair & Automatic & Manual Reset & Board



Sheet of

Figure W67

DRAMUS used for switching computers/computing Hardware Separate "anti-virus" E-mail CPU with separate "non-Email CPU"



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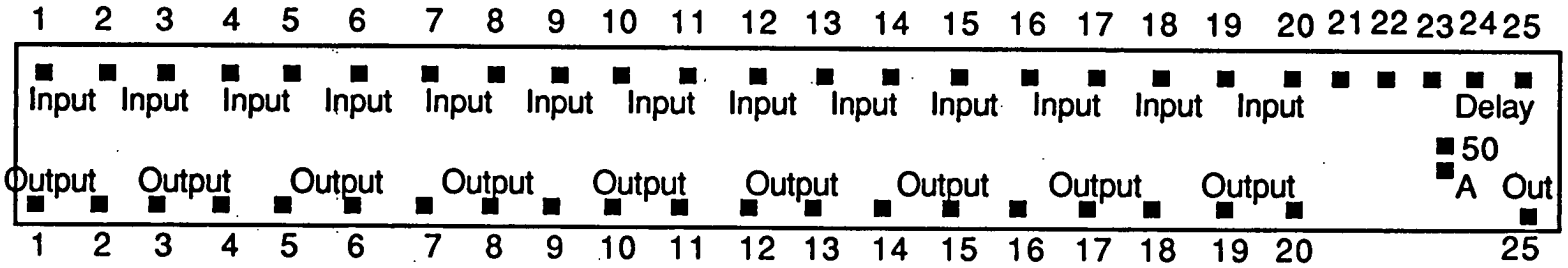
Optional Circuit Board and Socket Assembly



1) circuit 1
2) circuit 2
3) circuit 3
4) circuit 4
5) circuit 5
6) circuit 6

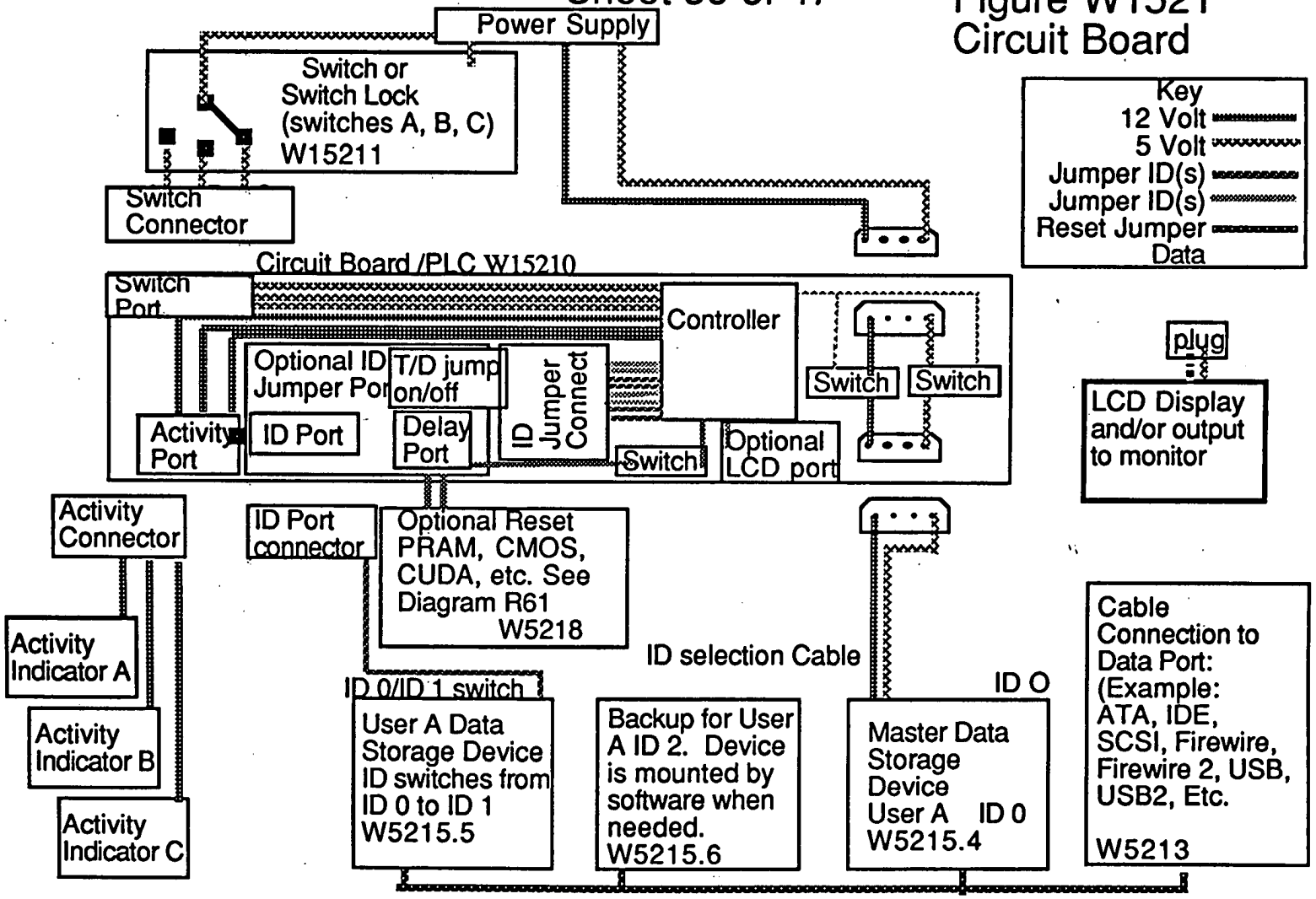
7) circuit 7
8) circuit 8
9) circuit 9
10) circuit 10

11) circuit 11
12) circuit 12
13) circuit 13
14) circuit 14
15) circuit 15
16) circuit 16

17) circuit 17
18) circuit 18
19) circuit 19
20) circuit 20

21) Power Control Indicator #21
22) Power Control Indicator #22
23) Power Control Indicator #23
24) Power Control Indicator #24
25) Power Control Indicator #25
26) time delay circuit
27) Data and power to LCD screen and/or data for computer monitor and/or to computer.
28) Power to board
40) delay start time for delay circuit
41) stop time for delay circuit
50) jumper "A"

Figure W152T
Circuit Board



Sheet of

Figure W153
Circuit Board

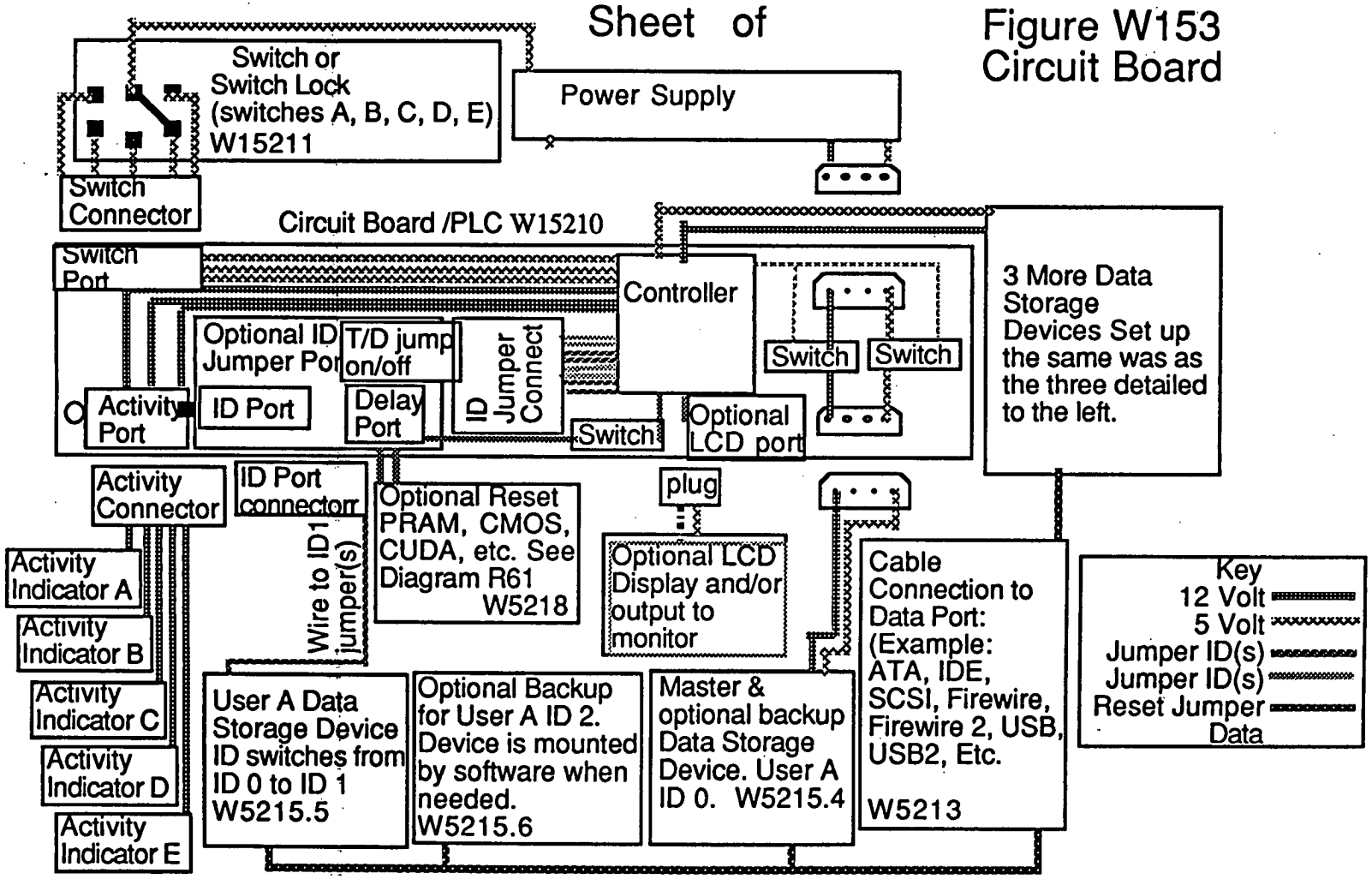
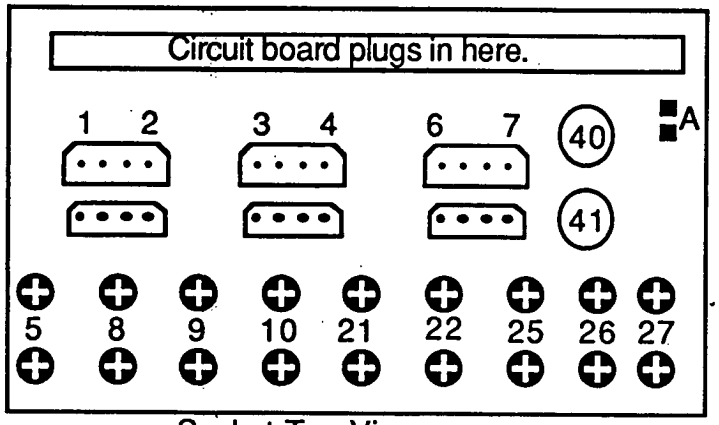
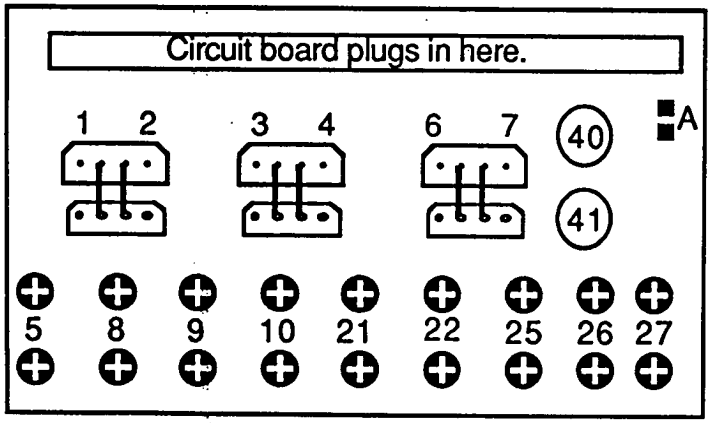


Figure W160

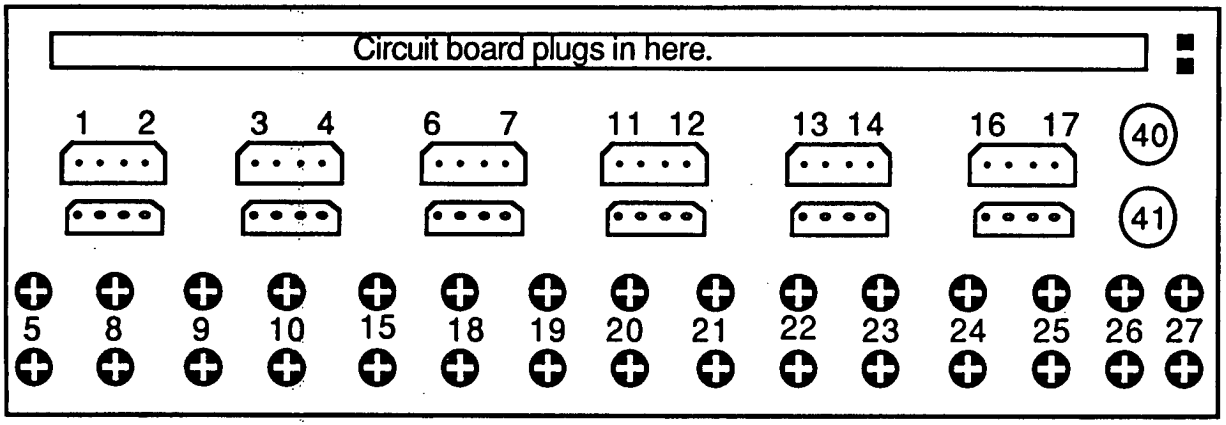


Socket Top View



Bottom View of Power Sockets--Jumpers
on bottom of socket neutral terminals

Socket Top View



Bottom View of Power Sockets--Jumpers on bottom of socket neutral terminals

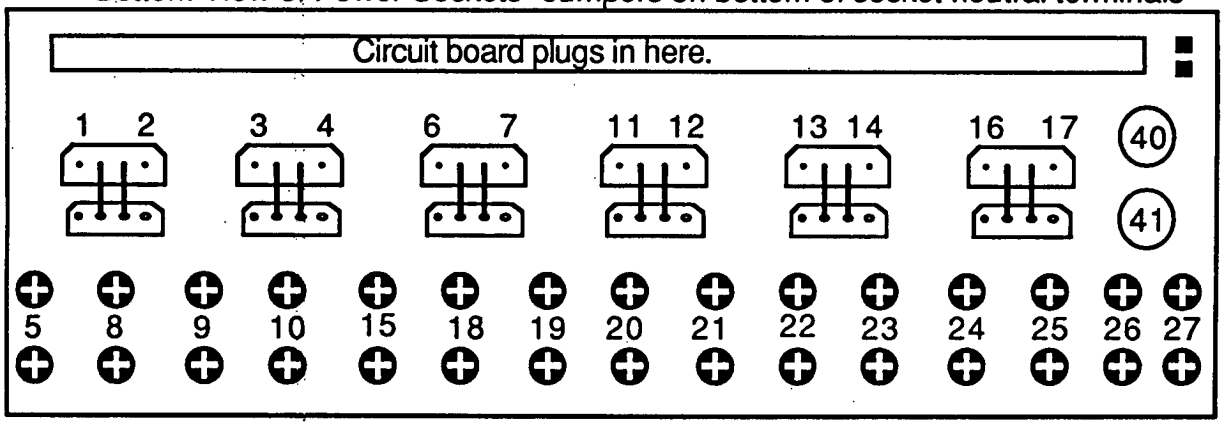
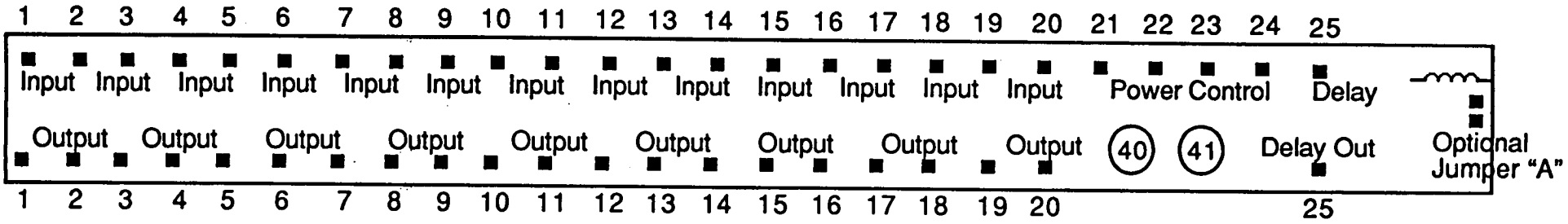


Figure W170 REDUNDANT???



1) circuit 1
2) circuit 2
3) circuit 3
4) circuit 4
5) circuit 5
6) circuit 6

7) circuit 7
8) circuit 8
9) circuit 9
10) circuit 10

11) circuit 11
12) circuit 12
13) circuit 13
14) circuit 14
15) circuit 15
16) circuit 16

17) circuit 17
18) circuit 18
19) circuit 19
20) circuit 20

21) Power Control Indicator #21
22) Power Control Indicator #22
23) Power Control Indicator #23
24) Power Control Indicator #24
25) time delay circuit
40) delay start time for delay circuit
41) stop time for delay circuit

BURPMU may need 4/22/01: Circuit board 7/15/2000

Sociket Top View

Neutrals bypass the Circuit board.... bottom view of neutrals

 Copyright Kenneth Largman and Anthony More 7/15/2000

FIGURE W175

Example of device to Switch and/or lock a network connection "on" or "off"

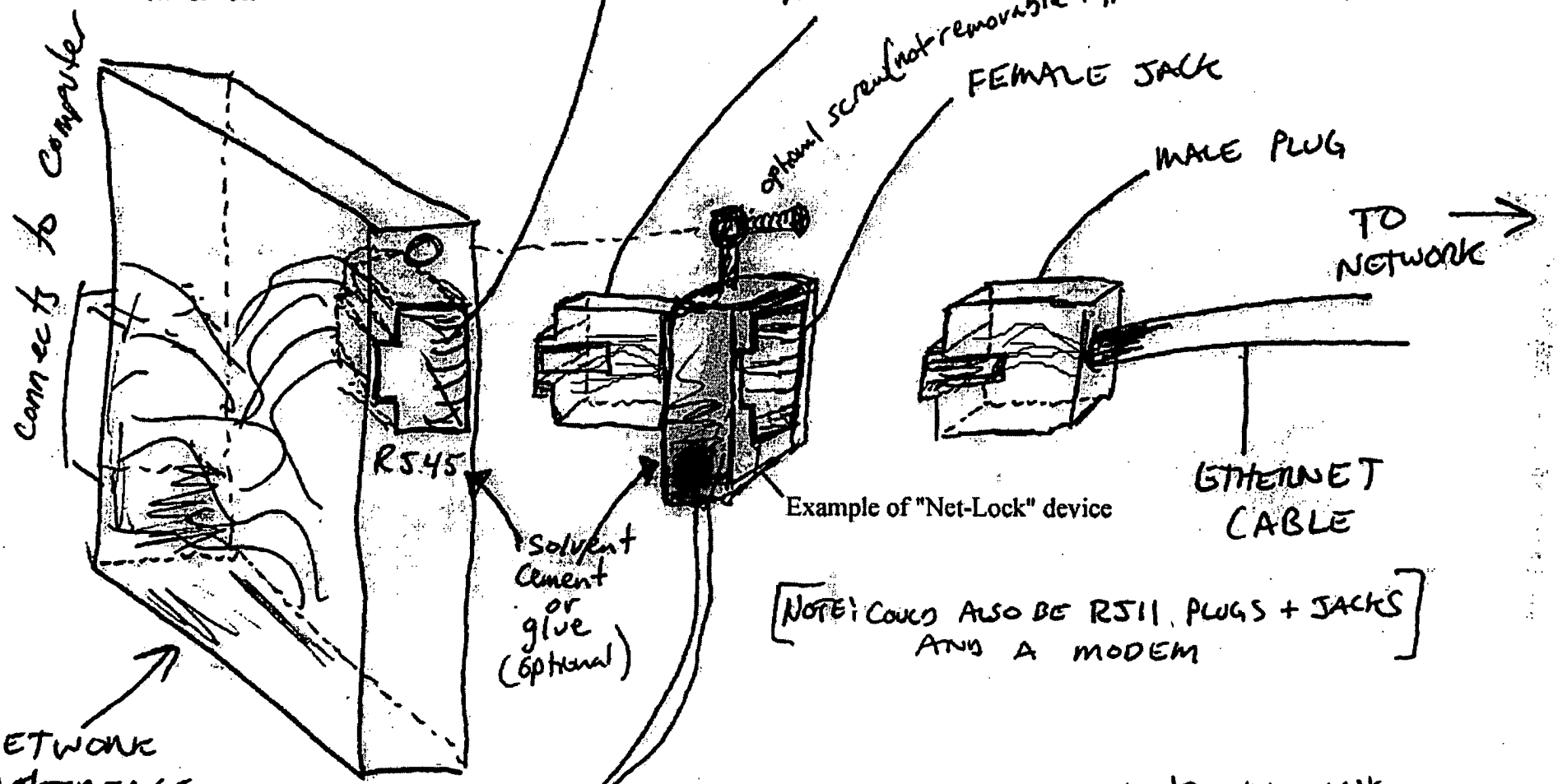


FIGURE
W176

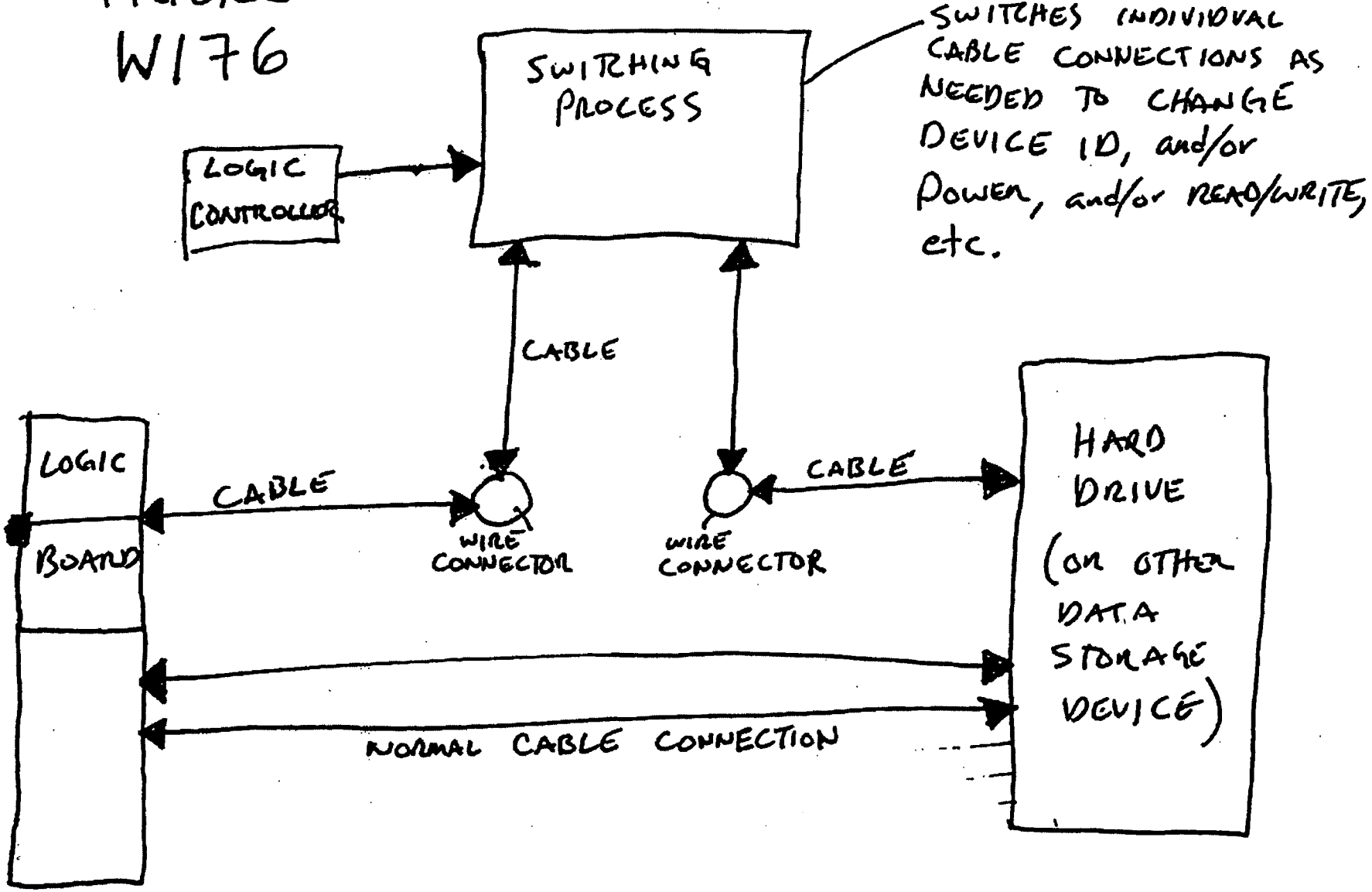

SWITCHING PROCESS
SWITCHES INDIVIDUAL CABLE CONNECTIONS AS NEEDED TO CHANGE DEVICE ID, and/or POWER, and/or READ/WRITE, etc.
LOGIC CONTROLLER
CABLE
LOGIC BOARD
CABLE
WIRE CONNECTOR
WIRE CONNECTOR
CABLE
HARD DRIVE (OR OTHER DATA STORAGE DEVICE)
NORMAL CABLE CONNECTION

Figure W 177

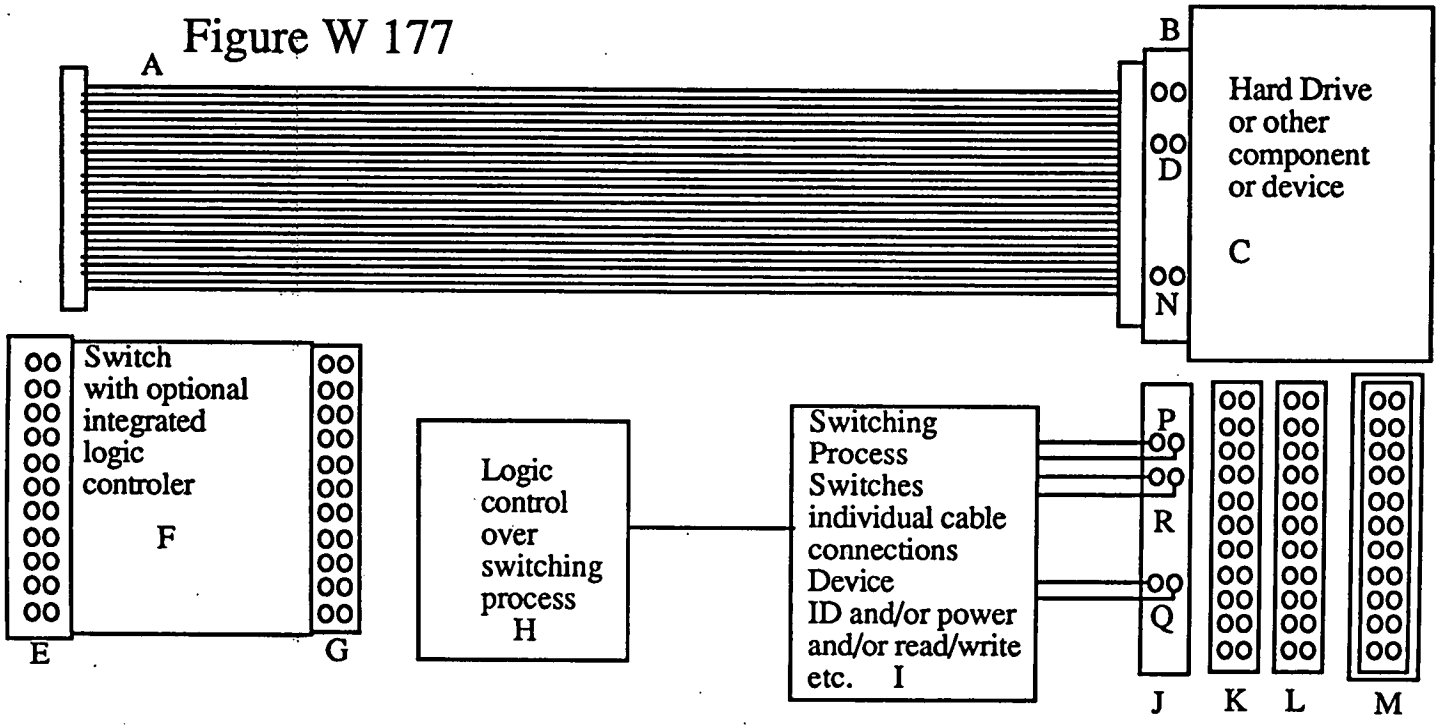

A
B
D
N
Hard Drive
or other
component
or device
C
Switch
with optional
integrated
logic
controler
F
E
G
Logic
control
over
switching
process
H
Switching
Process
Switches
individual cable
connections
Device
ID and/or power
and/or read/write
etc. I
P
R
Q
J
K
L
M

Figure W 178

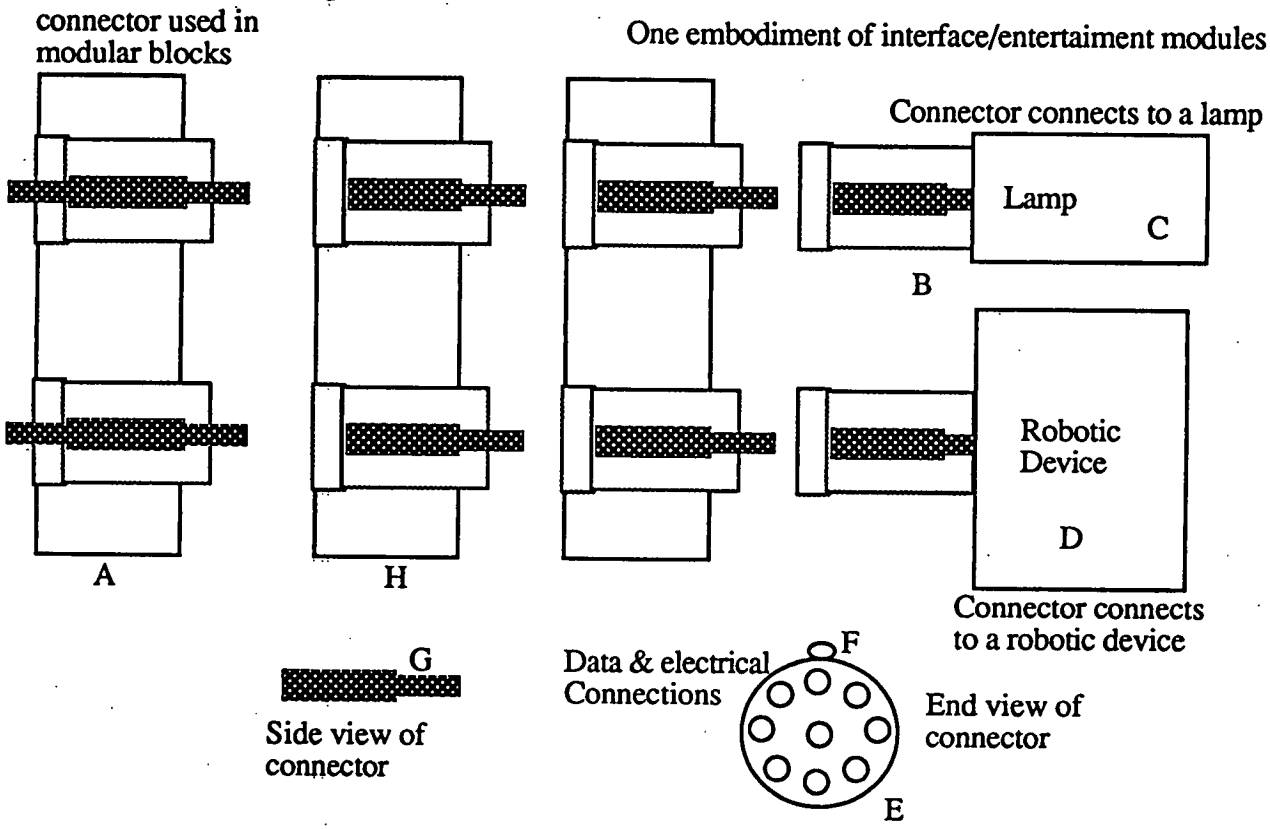
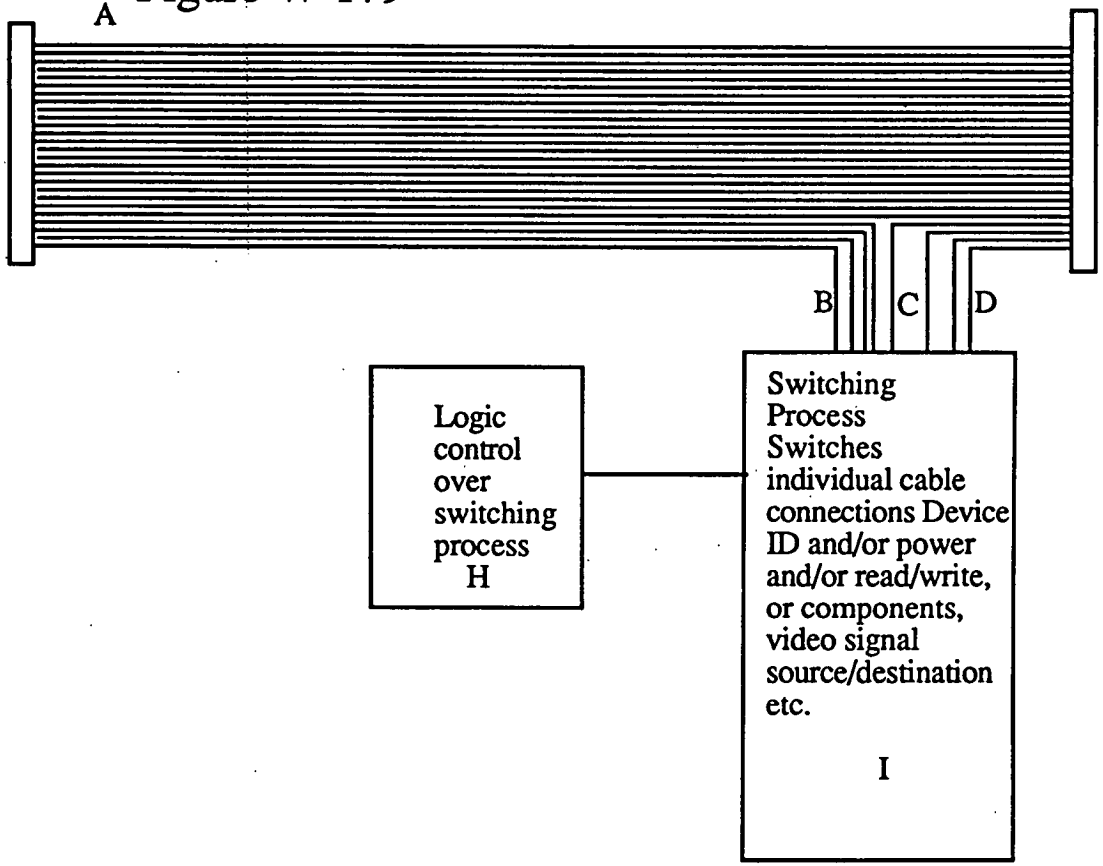
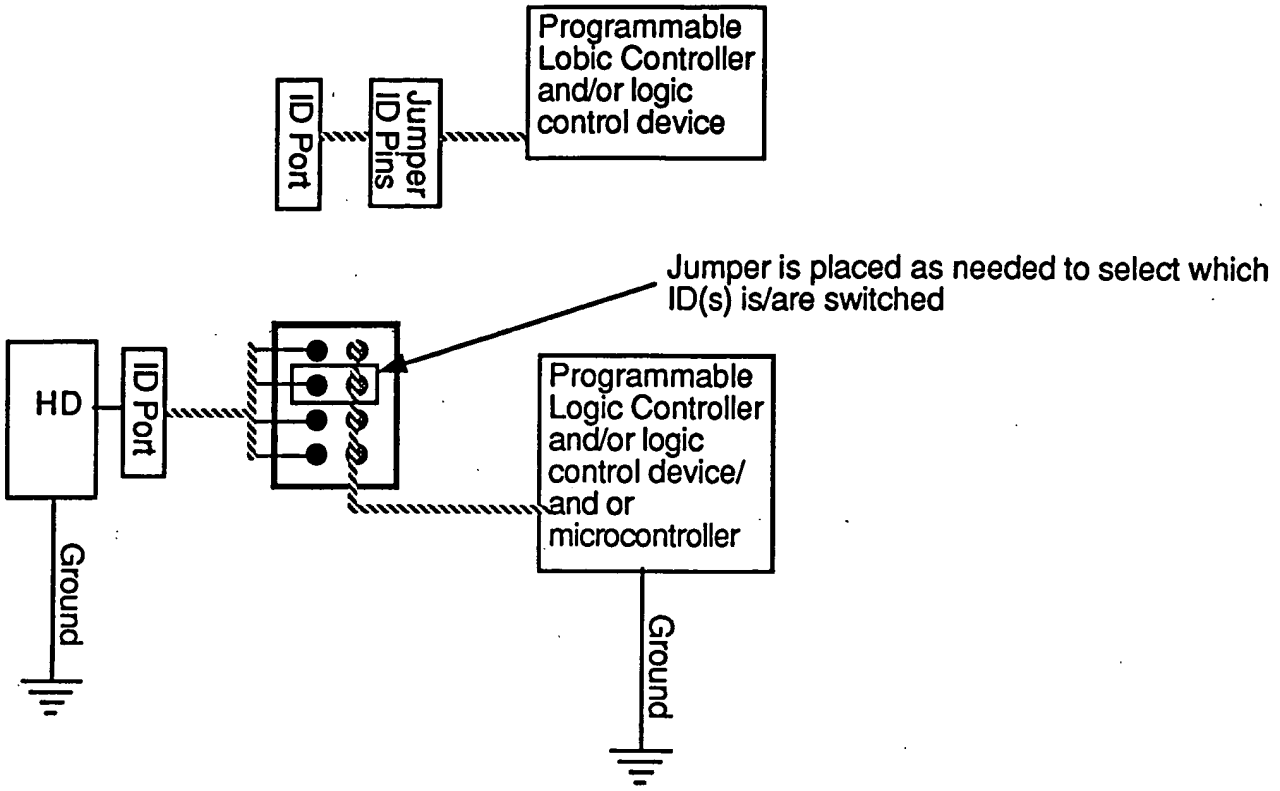

connector used in modular blocks
One embodiment of interface/entertaiment modules
Connector connects to a lamp
Lamp
C
B
Robotic Device
D
Connector connects to a robotic device
A
H
G
Side view of connector
Data & electrical Connections
F
E
End view of connector

Figure W 179

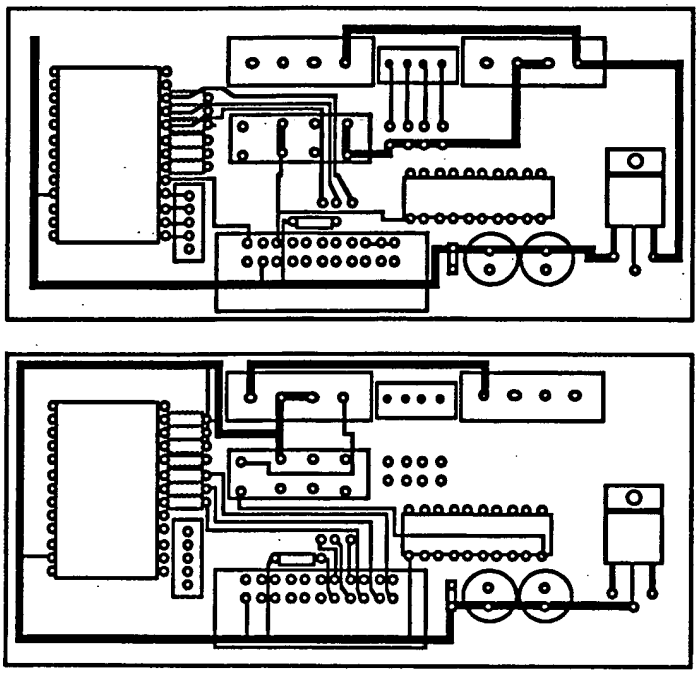

A
B
C
D
Logic control over switching process
H
Switching Process Switches individual cable connections Device ID and/or power and/or read/write, or components, video signal source/destination etc.
I

WJ1



Pink are common on the circuit board. they connect to 1 IO pin of the microcontoller
Black connect to A0 A1 A2 A3 on hard drive.

WJ2



WJ3

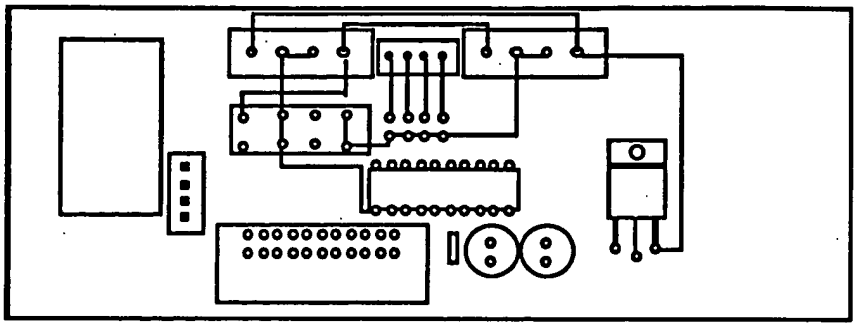


FIGURE M20

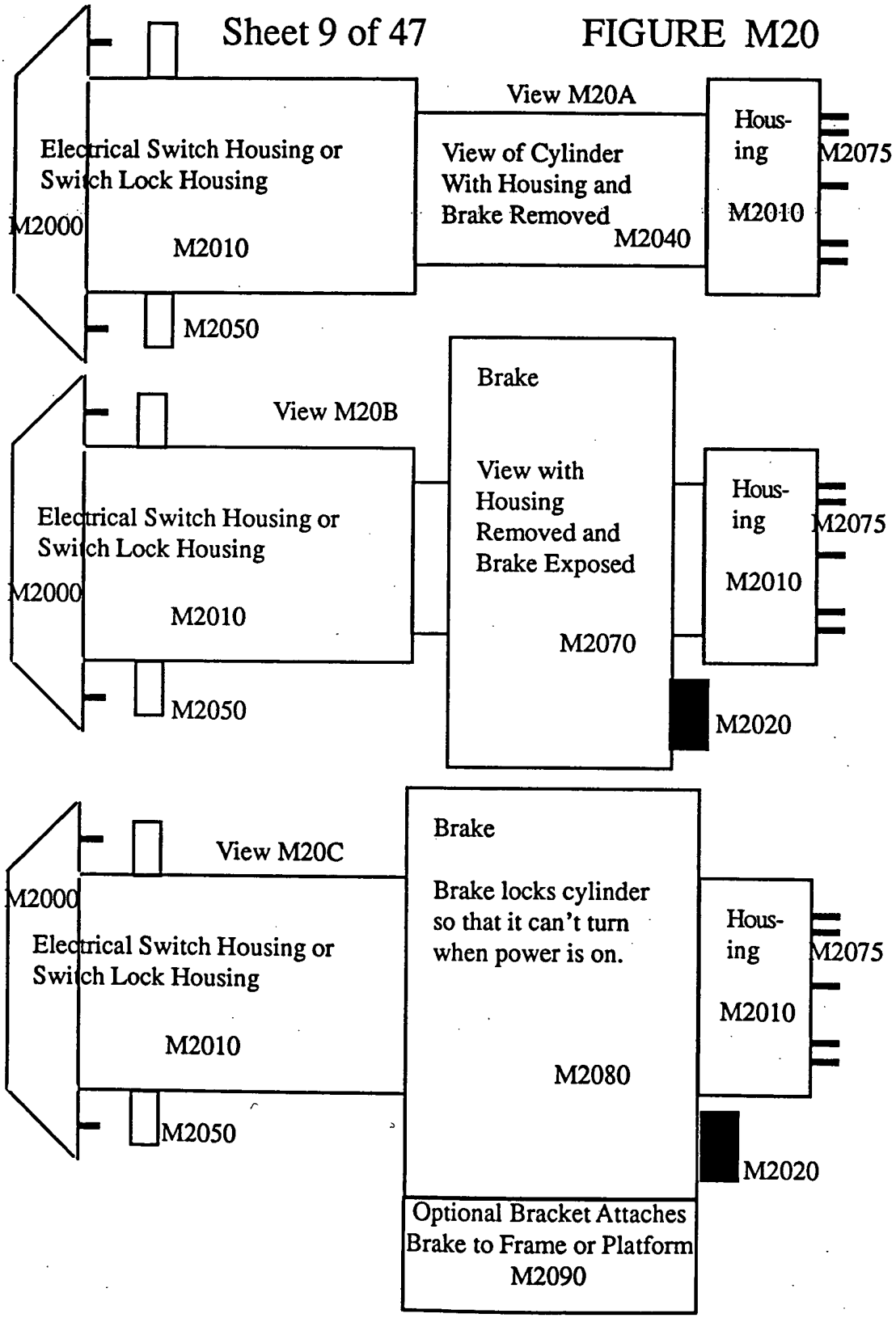

View M20A
Electrical Switch Housing or Switch Lock Housing
M2000
M2010
M2050
View of Cylinder With Housing and Brake Removed
M2040
Housing
M2010
M2075
View M20B
Electrical Switch Housing or Switch Lock Housing
M2000
M2010
M2050
Brake
View with Housing Removed and Brake Exposed
M2070
M2020
Housing
M2010
M2075
View M20C
M2000
Electrical Switch Housing or Switch Lock Housing
M2010
M2050
Brake
Brake locks cylinder so that it can't turn when power is on.
M2080
M2020
Housing
M2010
M2075
Optional Bracket Attaches Brake to Frame or Platform
M2090

FIGURE M21

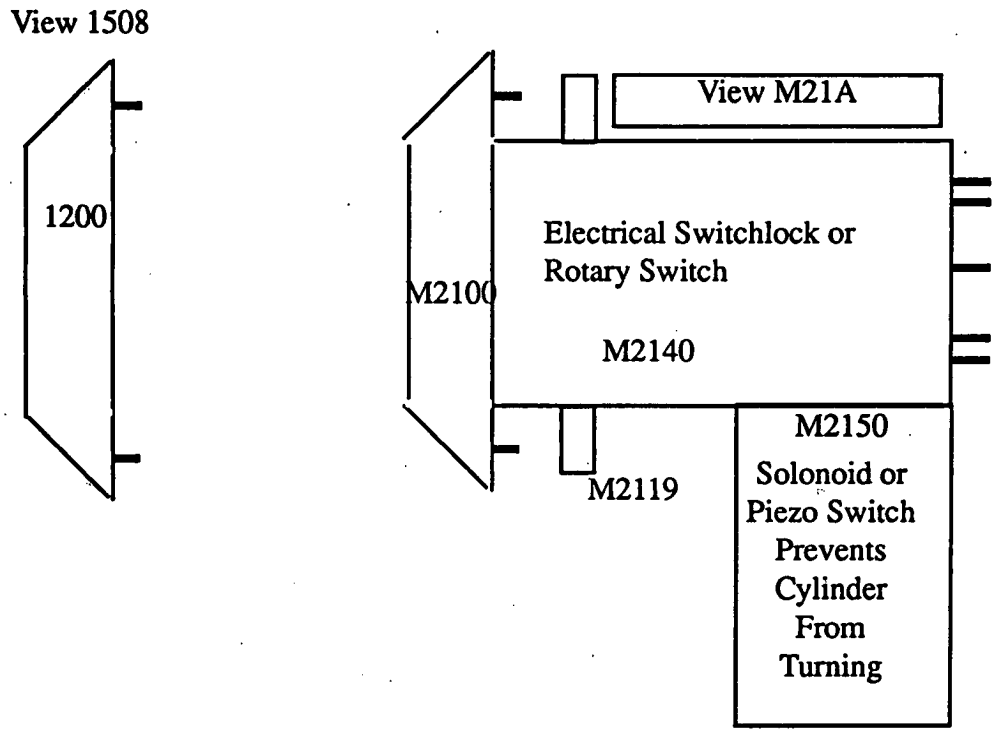
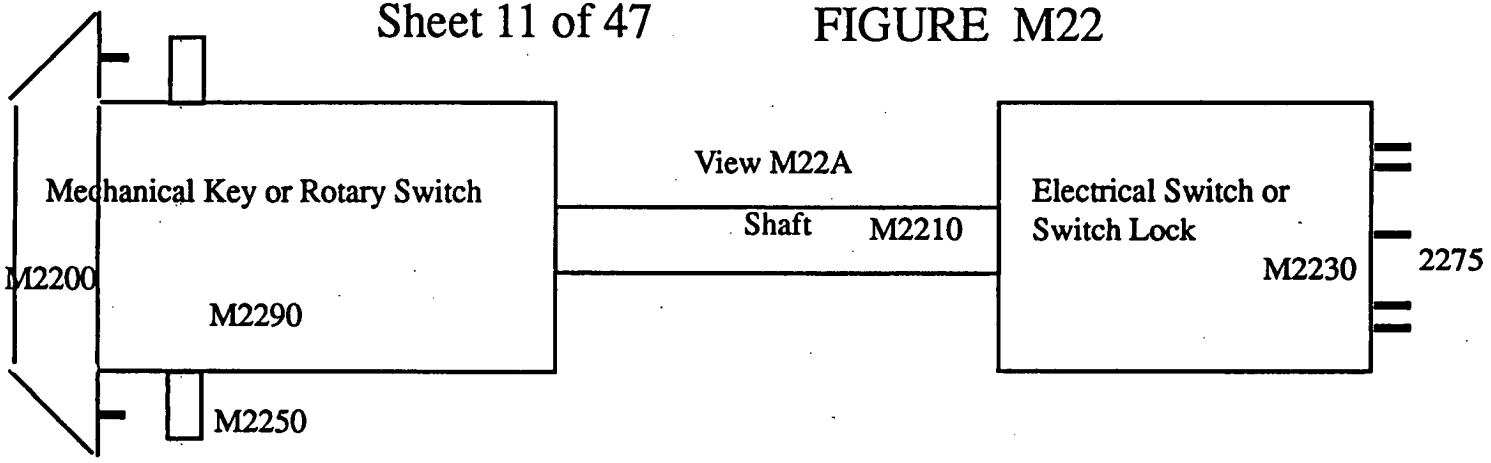

View 1508
1200
View M21A
Electrical Switchlock or
Rotary Switch
M2100
M2140
M2150
Solonoid or
Piezo Switch
Prevents
Cylinder
From
Turning
M2119

FIGURE M22


Mechanical Key or Rotary Switch
M2200
M2290
M2250
View M22A
Shaft
M2210
Electrical Switch or
Switch Lock
M2230
2275

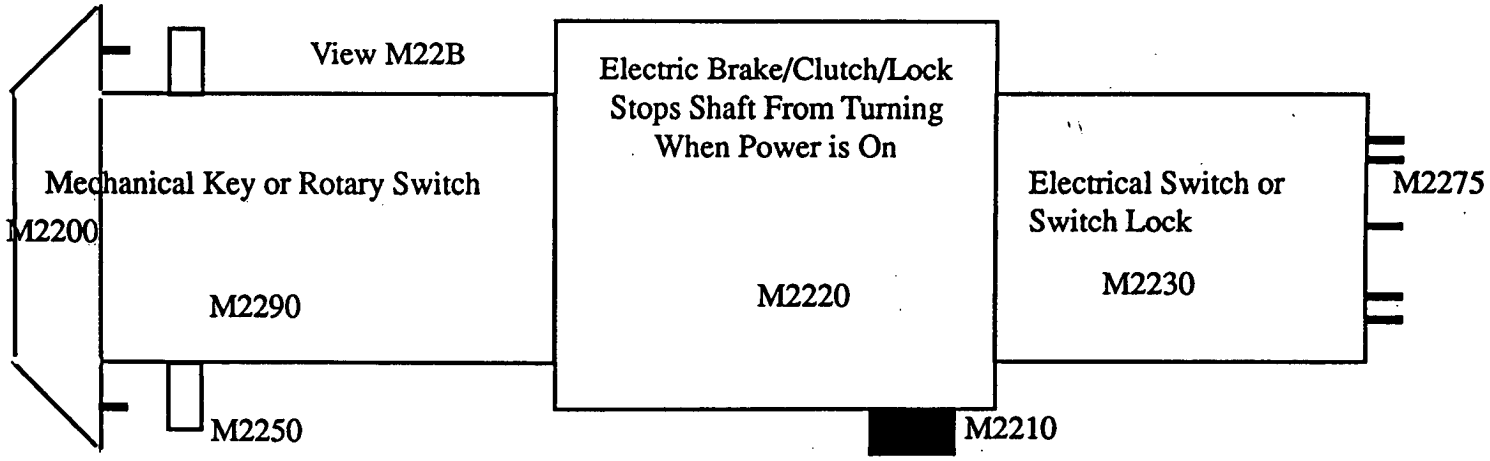

View M22B
Mechanical Key or Rotary Switch
M2200
M2290
M2250
Electric Brake/Clutch/Lock
Stops Shaft From Turning
When Power is On
M2220
M2210
Electrical Switch or
Switch Lock
M2230
M2275

FIGURE M23

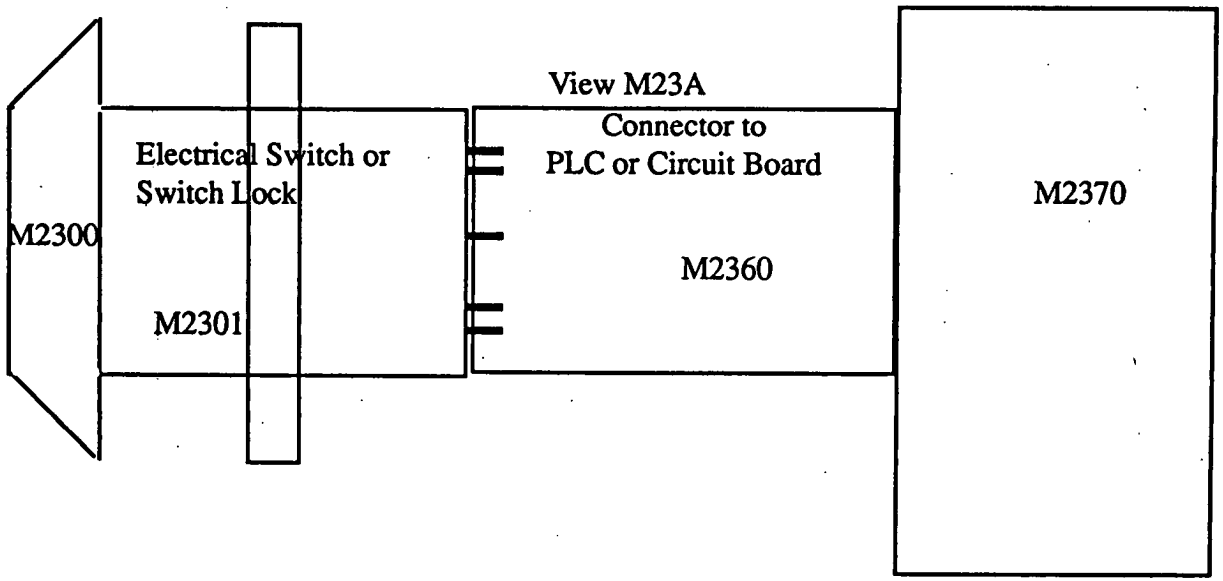

View M23A
Connector to
PLC or Circuit Board
Electrical Switch or
Switch Lock
M2300
M2301
M2360
M2370

FIGURE M24

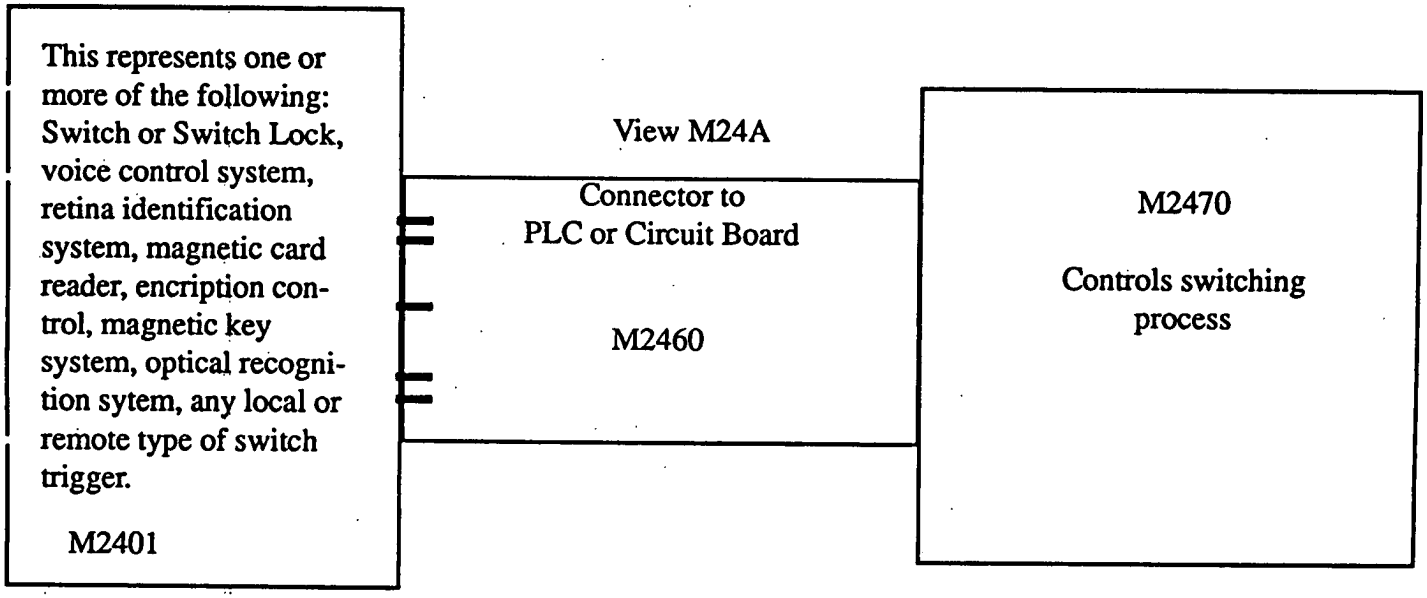

This represents one or more of the following: Switch or Switch Lock, voice control system, retina identification system, magnetic card reader, encription control, magnetic key system, optical recognition sytem, any local or remote type of switch trigger.
M2401
View M24A
Connector to PLC or Circuit Board
M2460
M2470
Controls switching process

Figure E1

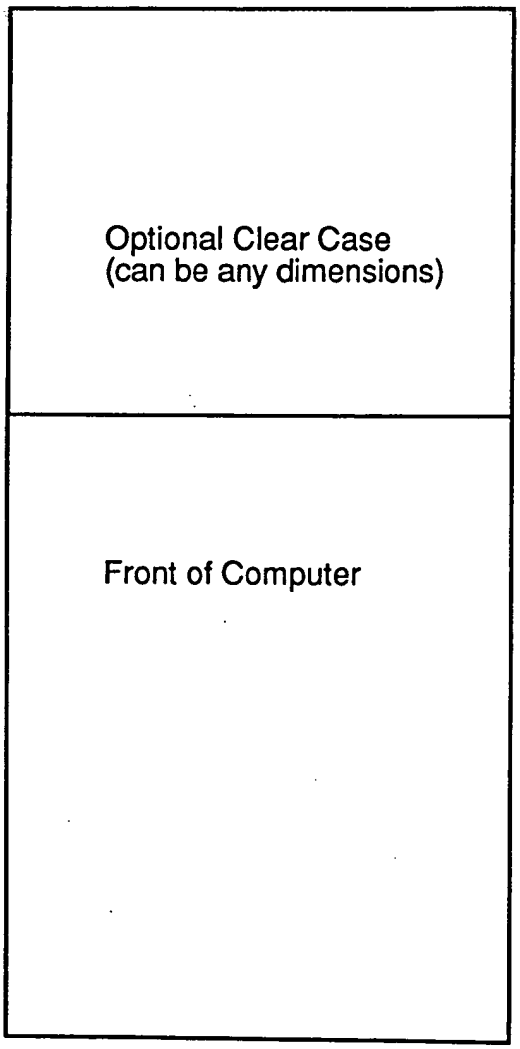

Optional Clear Case
(can be any dimensions)
Front of Computer

Figure E2

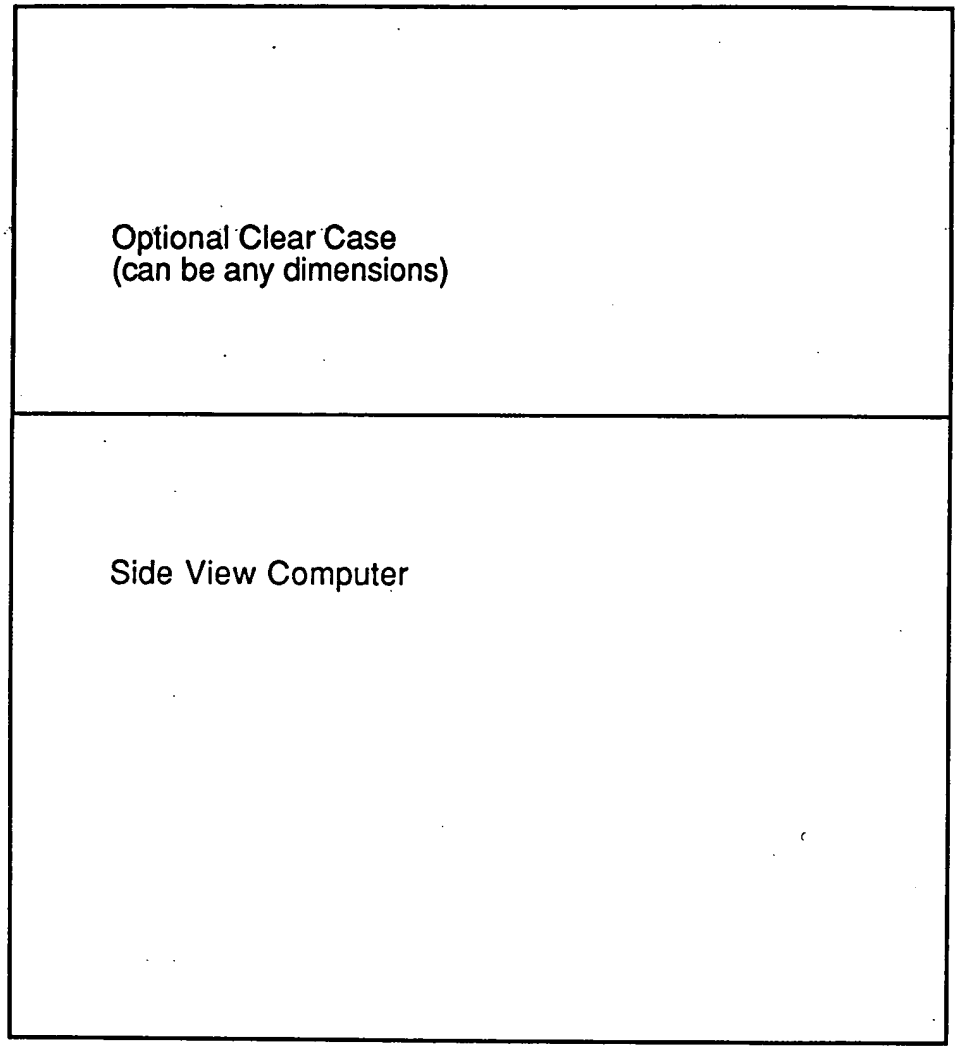

Optional Clear Case
(can be any dimensions)
Side View Computer

Figure E3

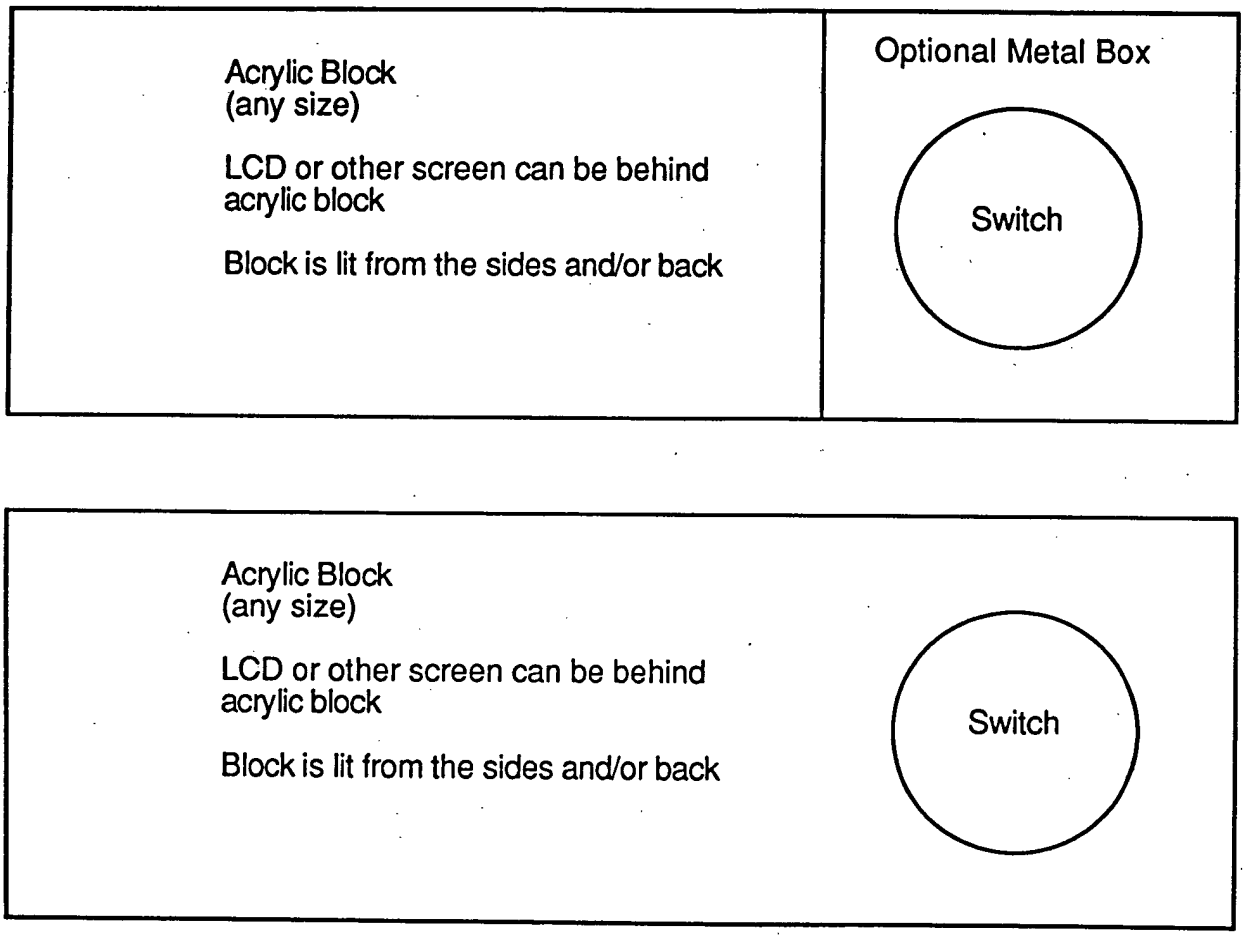

Acrylic Block
(any size)
LCD or other screen can be behind acrylic block
Block is lit from the sides and/or back
Optional Metal Box
Switch
Acrylic Block
(any size)
LCD or other screen can be behind acrylic block
Block is lit from the sides and/or back
Switch

Figure E4

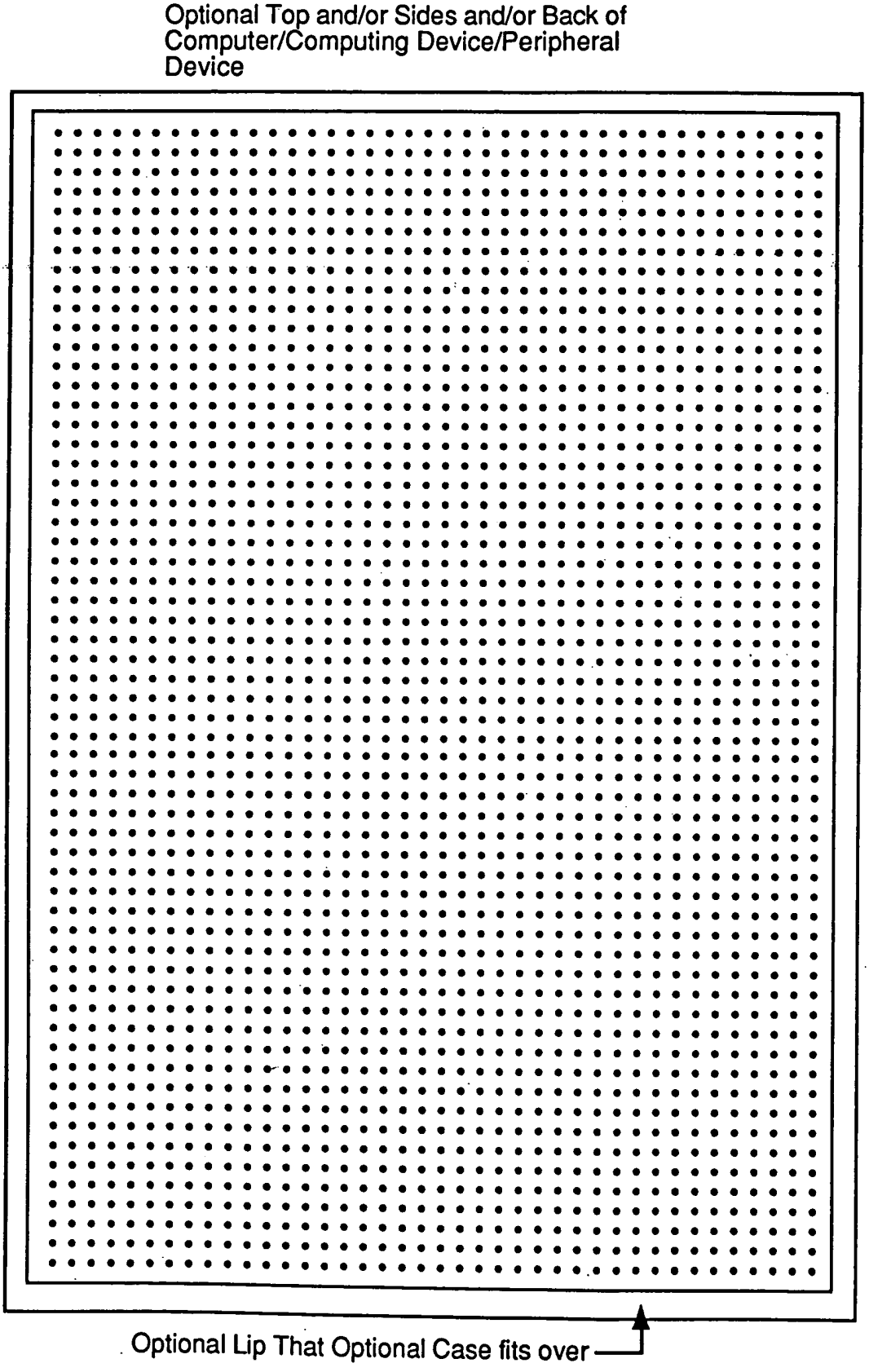

Optional Top and/or Sides and/or Back of Computer/Computing Device/Peripheral Device
Optional Lip That Optional Case fits over

Figure E5

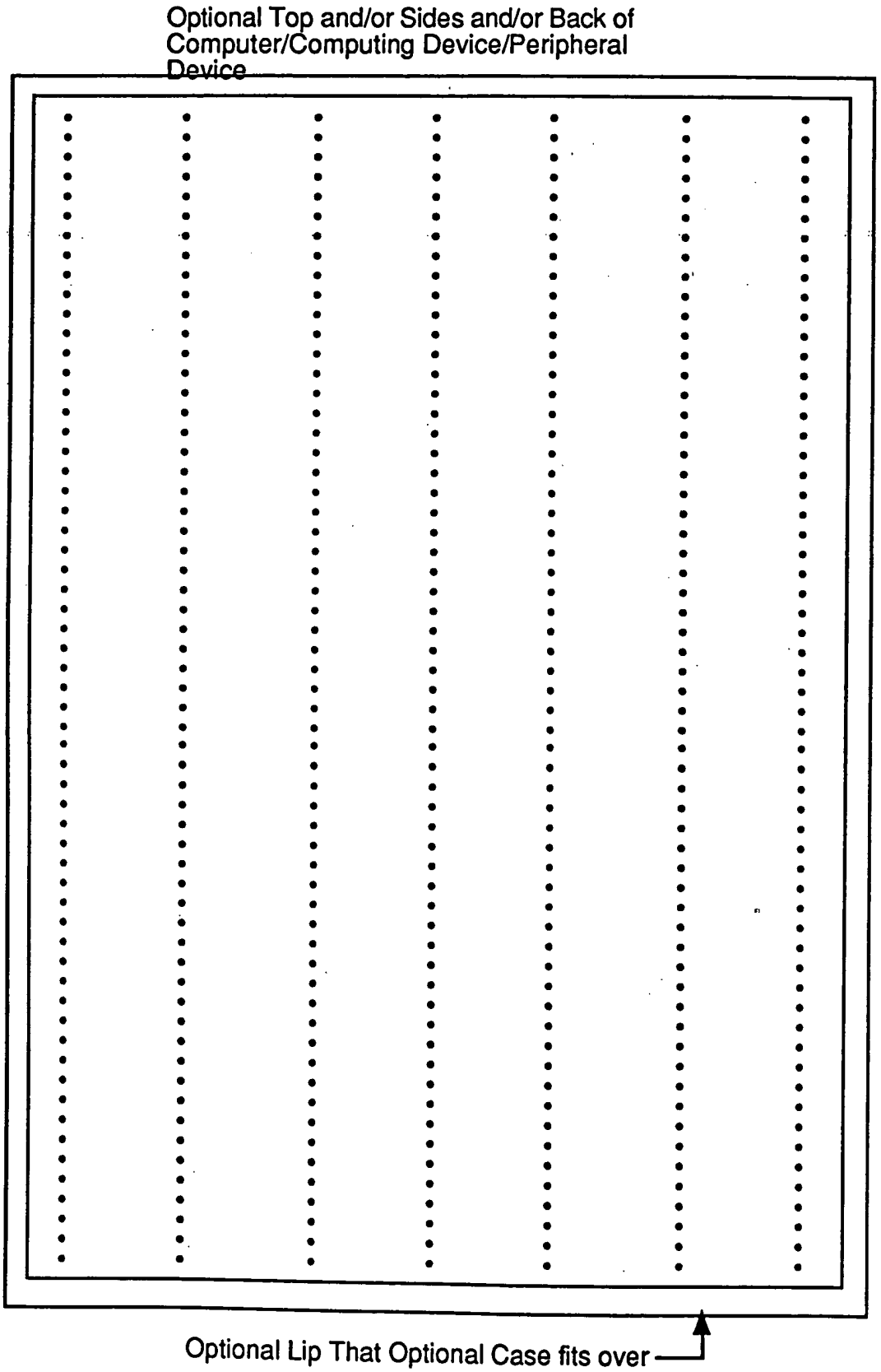

Optional Top and/or Sides and/or Back of Computer/Computing Device/Peripheral Device
Optional Lip That Optional Case fits over

Figure E6

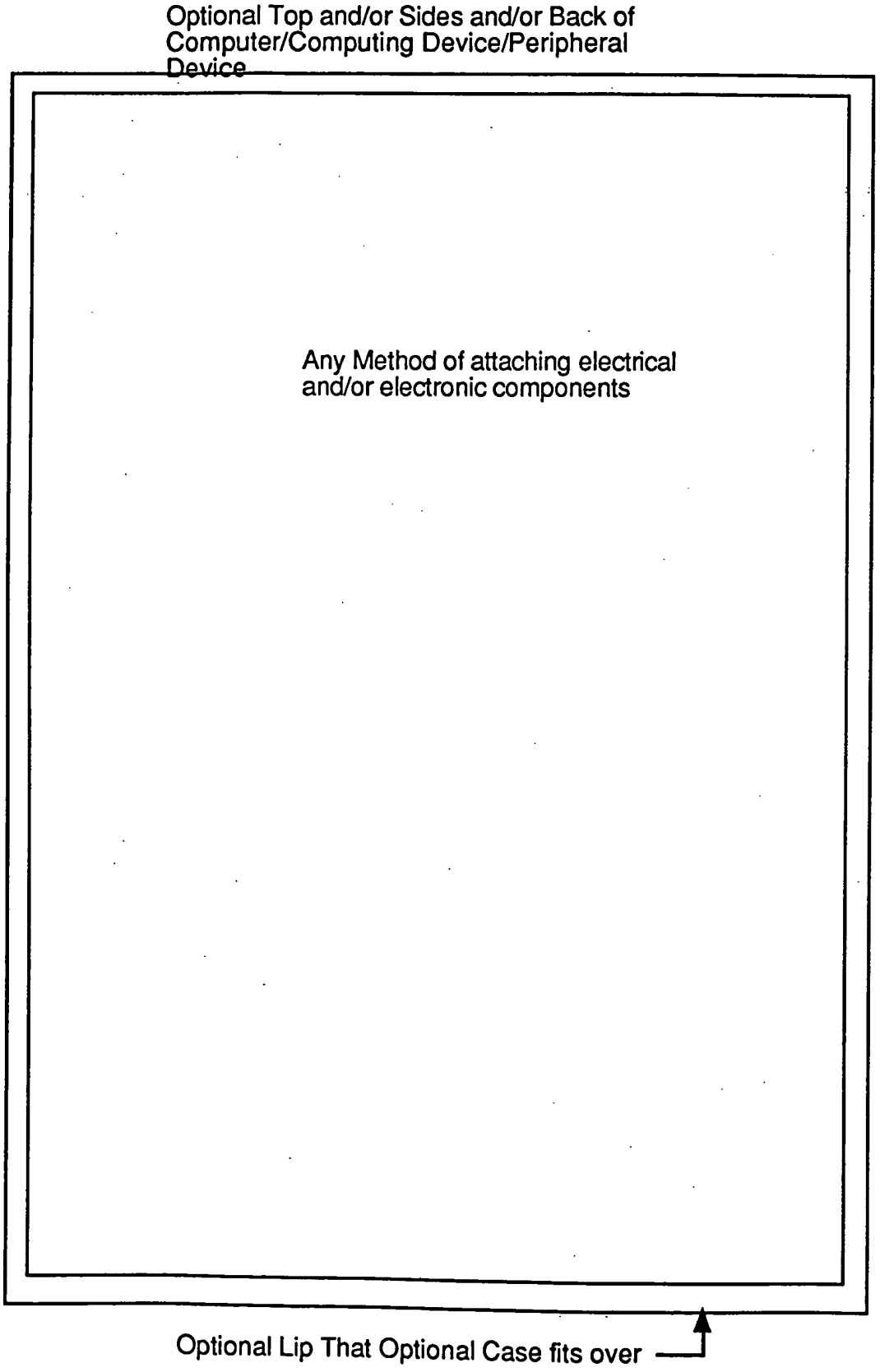

Optional Top and/or Sides and/or Back of Computer/Computing Device/Peripheral Device
Any Method of attaching electrical and/or electronic components
Optional Lip That Optional Case fits over

Figure E7

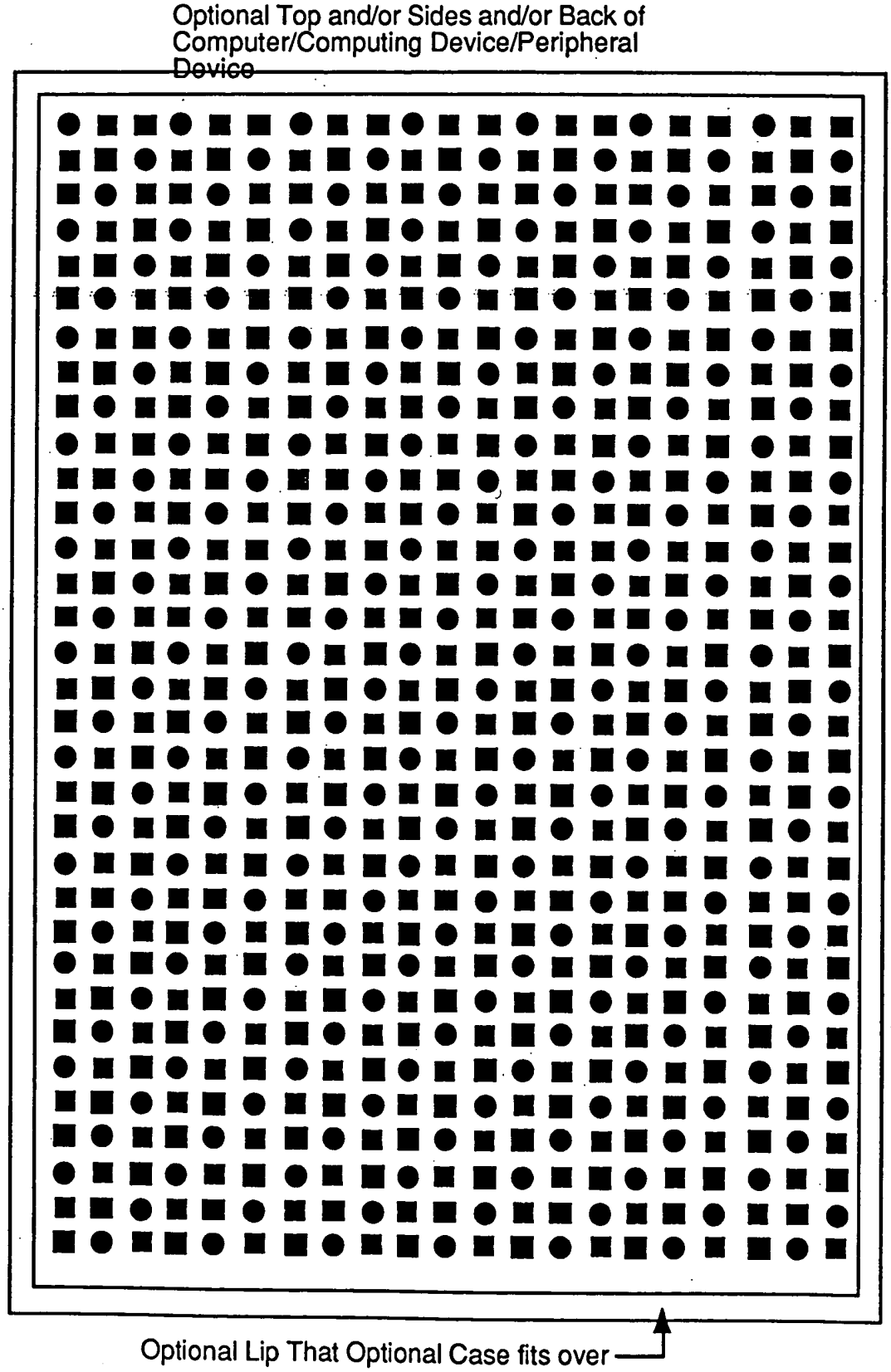

Optional Top and/or Sides and/or Back of Computer/Computing Device/Peripheral Device
Optional Lip That Optional Case fits over

Figure E8

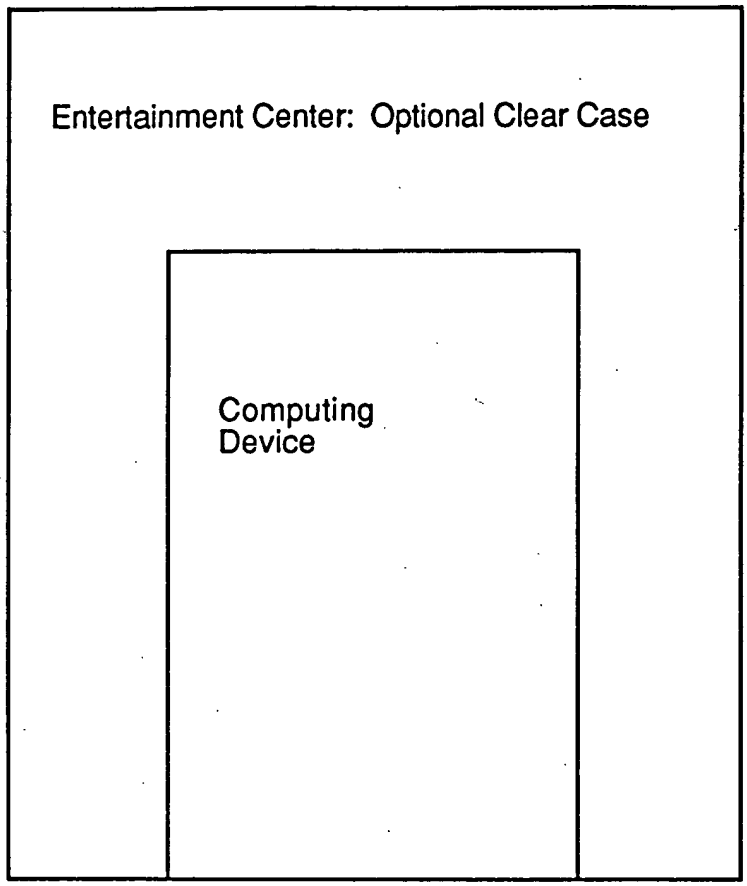

Entertainment Center: Optional Clear Case
Computing
Device

Figure E9

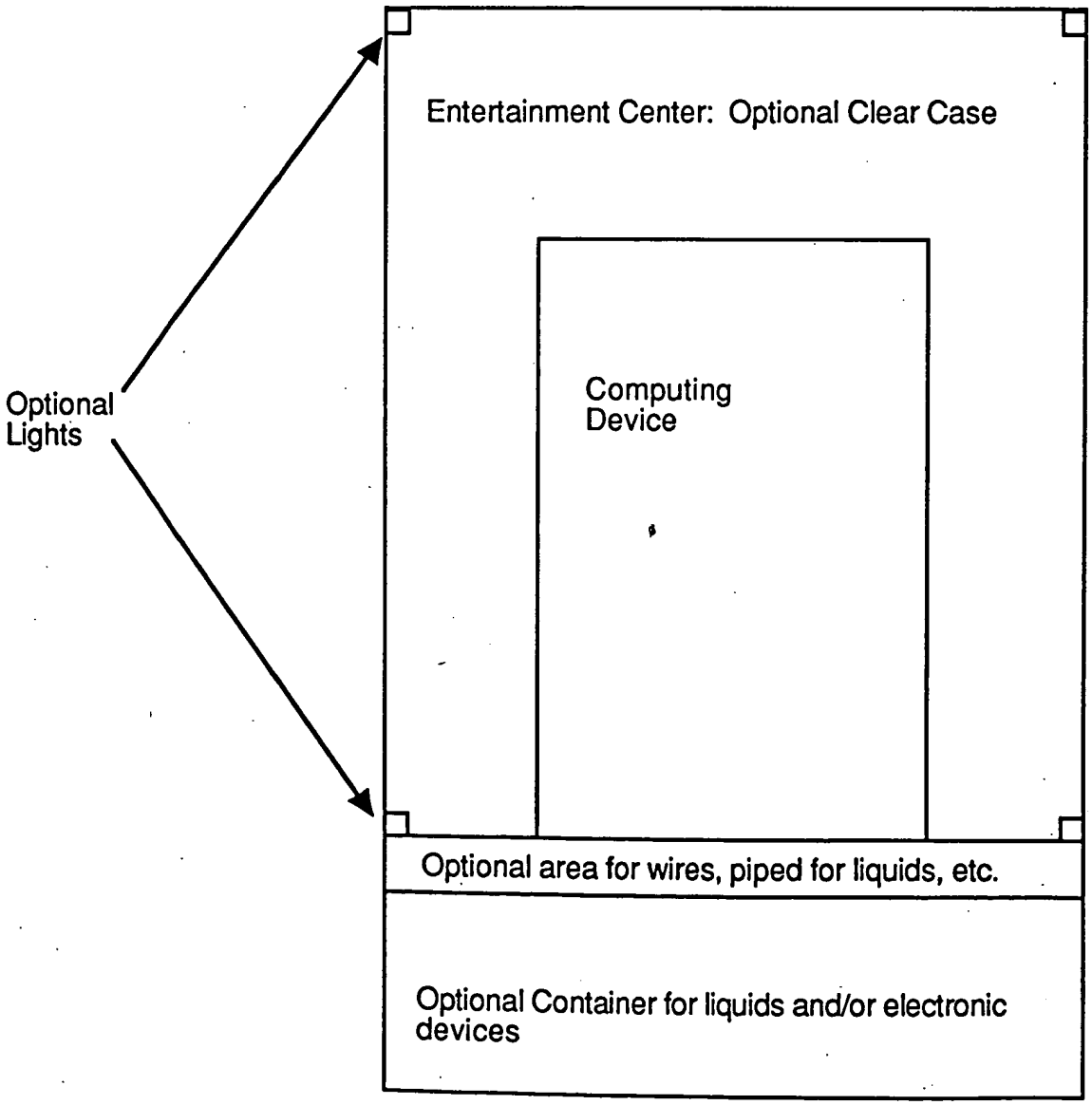
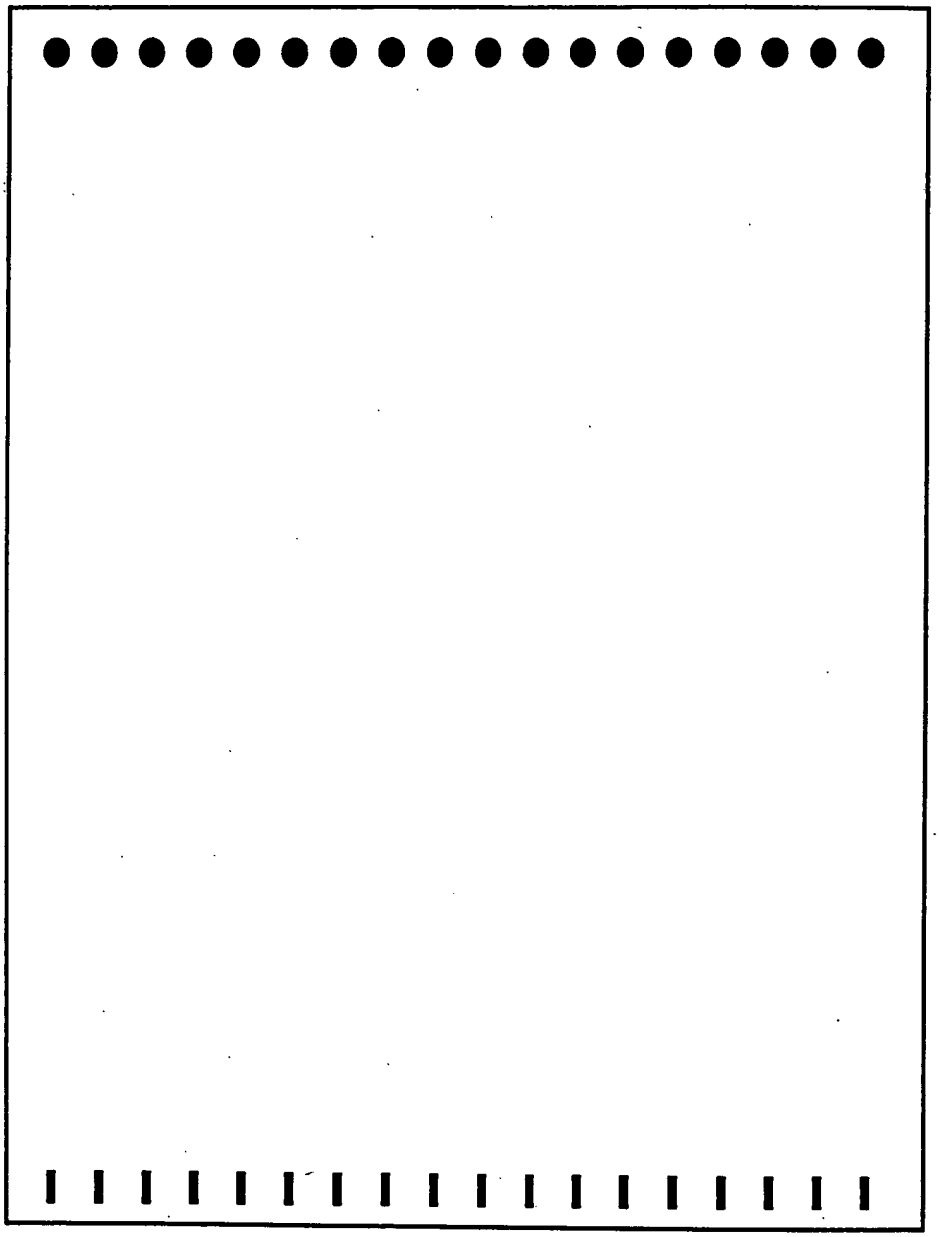
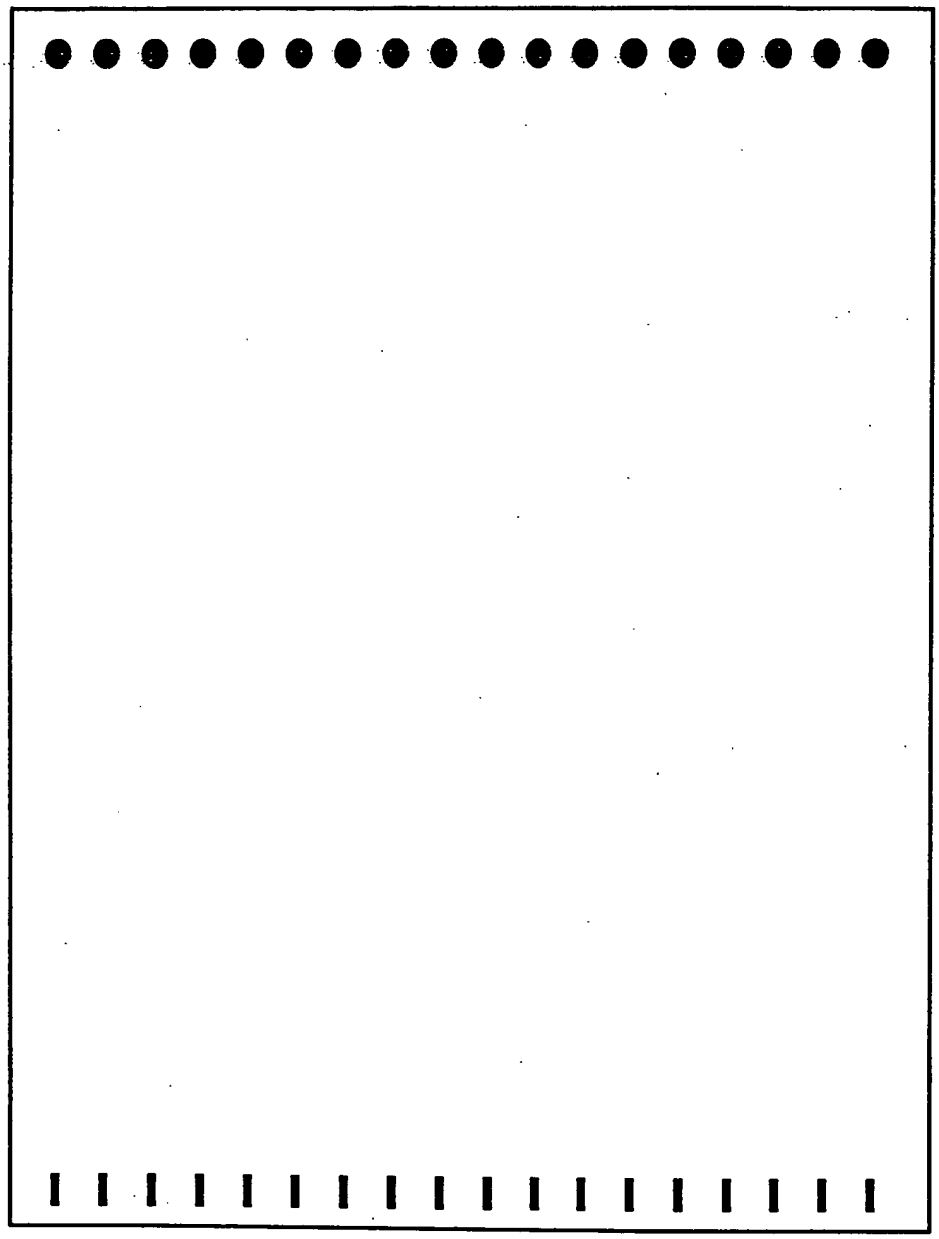

Entertainment Center: Optional Clear Case
Computing Device
Optional Lights
Optional area for wires, piped for liquids, etc.
Optional Container for liquids and/or electronic devices

Figure E10



Optional Top and/or sides. Circuit board and/or device connector board plugs into power sources on top of computing device.

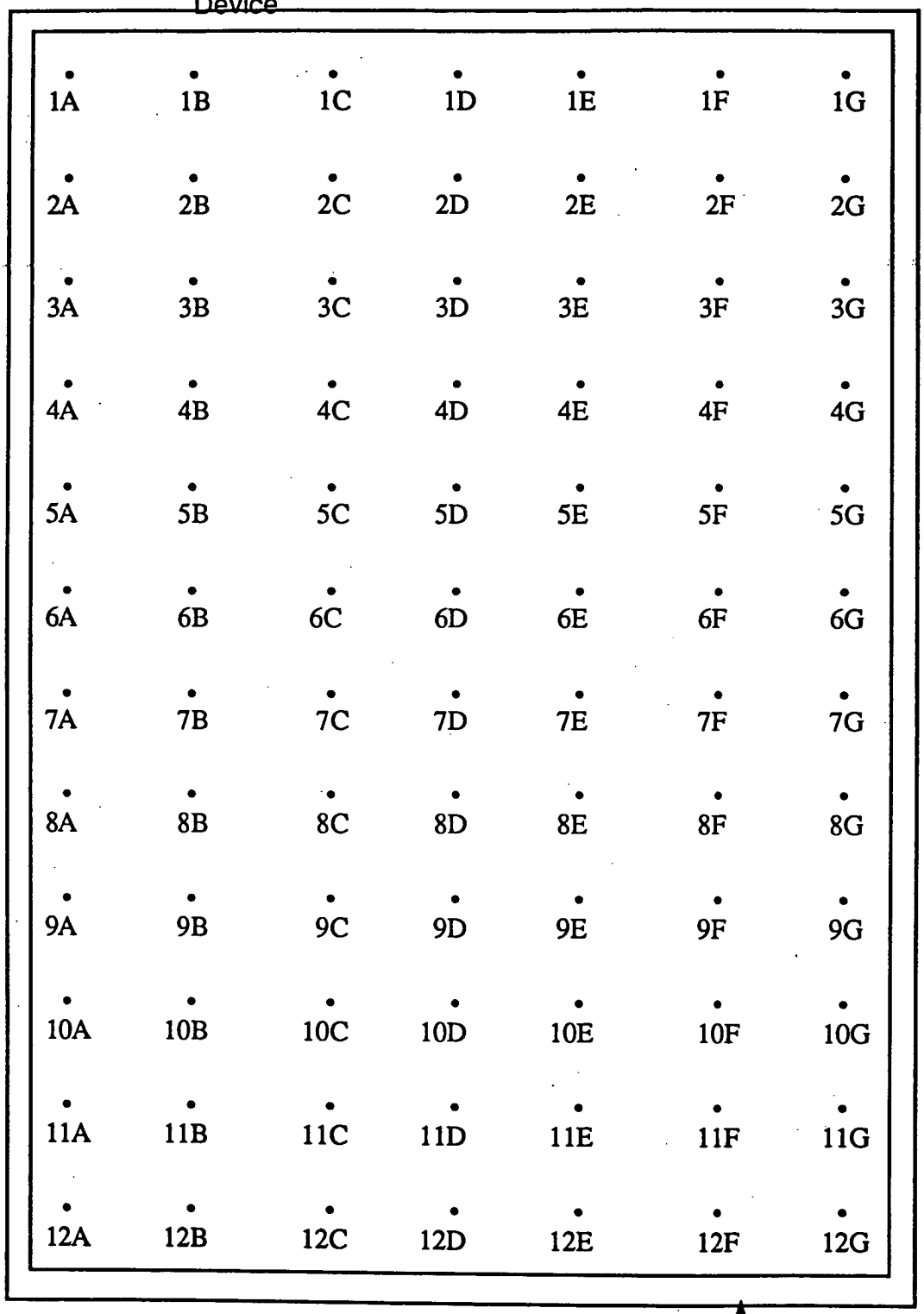
Figure E11



Optional Example circuit board (bottom View) and/or device connector board plugs. It plugs into power sources on top and/or sides of computing device. This is a functional design that only shows connections to power sources from computing device.

Figure E12

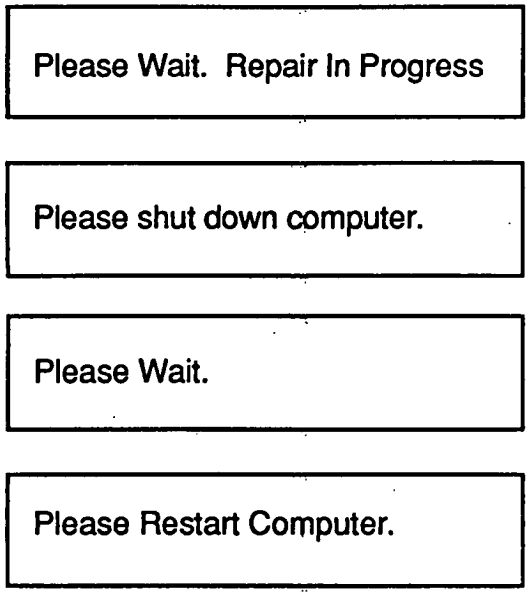
Optional Top and/or Sides and/or Back of Computer/Computing Device/Peripheral Device



Optional Lip That Optional Case fits over

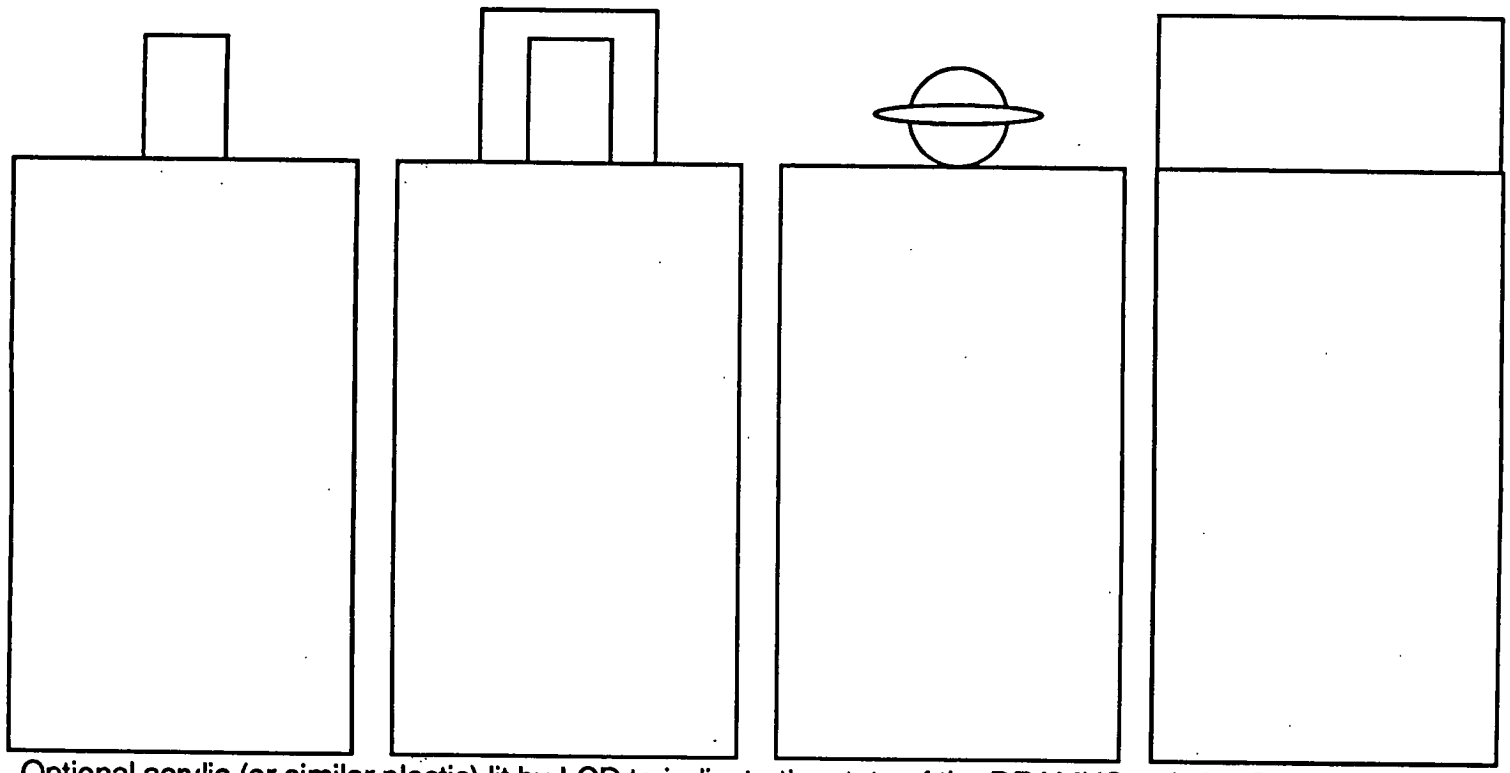
Numbers, letters, and/or symbols match top and bottom of board. Wires hook wherever user wants to put them. Software controls circuits.

Figure E 14 Examples of optional LCD screen dialog.



In addition to using an LCD screen, or in Lieu of using an LCD screen, dialog can be written directly to monitor, and/or communicated by other means of communication such as speech.

Figure E80 Optional interactive display and entertainment compone



Optional acrylic (or similar plastic) lit by LCD to indicate the state of the DRAMUS switch. Optionally it can also be used as a decoration triggered by sound, motion, etc. Various colored lights are used to change colors in acrylic. Other art pieces can also be put in these "entertainment" boxes, such as lava lights, plasma lamps, and various art projects.

Figure E81

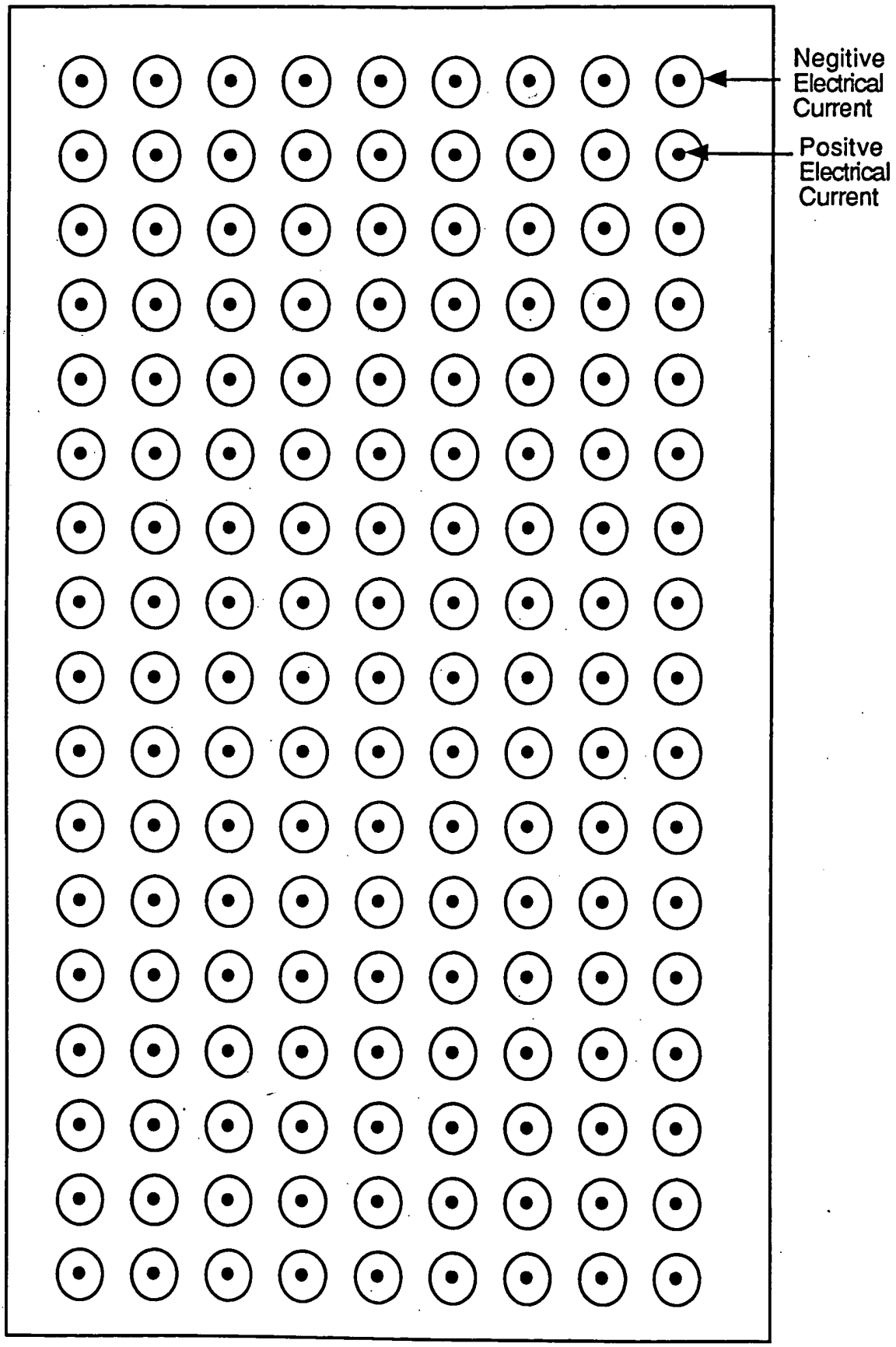
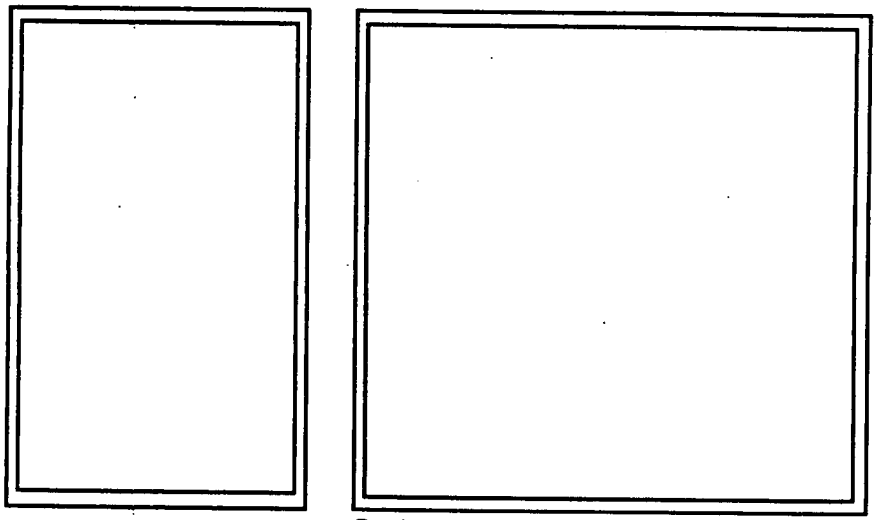


Figure E82



Optional Colored Transparent Acrylic Case Lit by LCD or other light source. A layer of white acrylic or similar material can be under the outer layer for the purpose of diffusing the light. Optionally, case can be clear and change color when computer functions change when different groups of colored LCDs go on depending on switching functions taking place, or sounds, motion or other triggers.

Figure E83

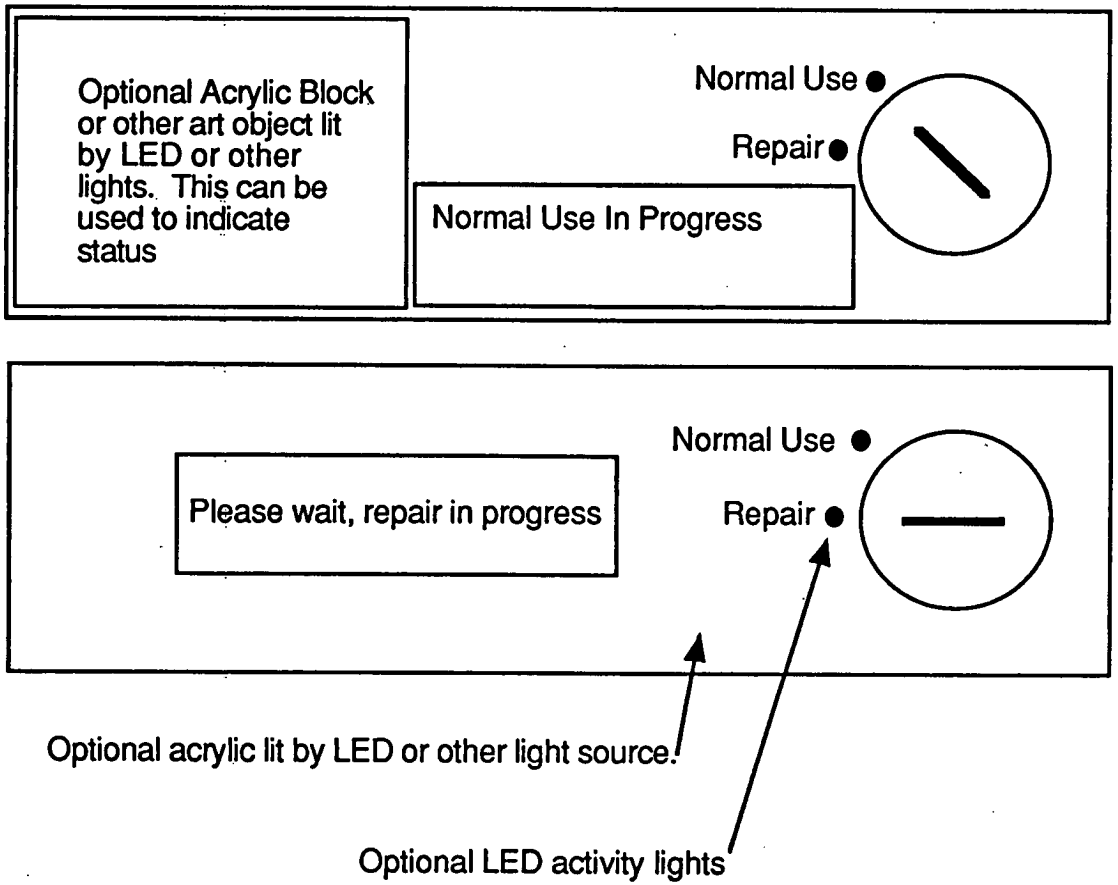

Optional Acrylic Block or other art object lit by LED or other lights. This can be used to indicate status
Normal Use
Repair
Normal Use In Progress
Please wait, repair in progress
Normal Use
Repair
Optional acrylic lit by LED or other light source.
Optional LED activity lights

Figure L 70

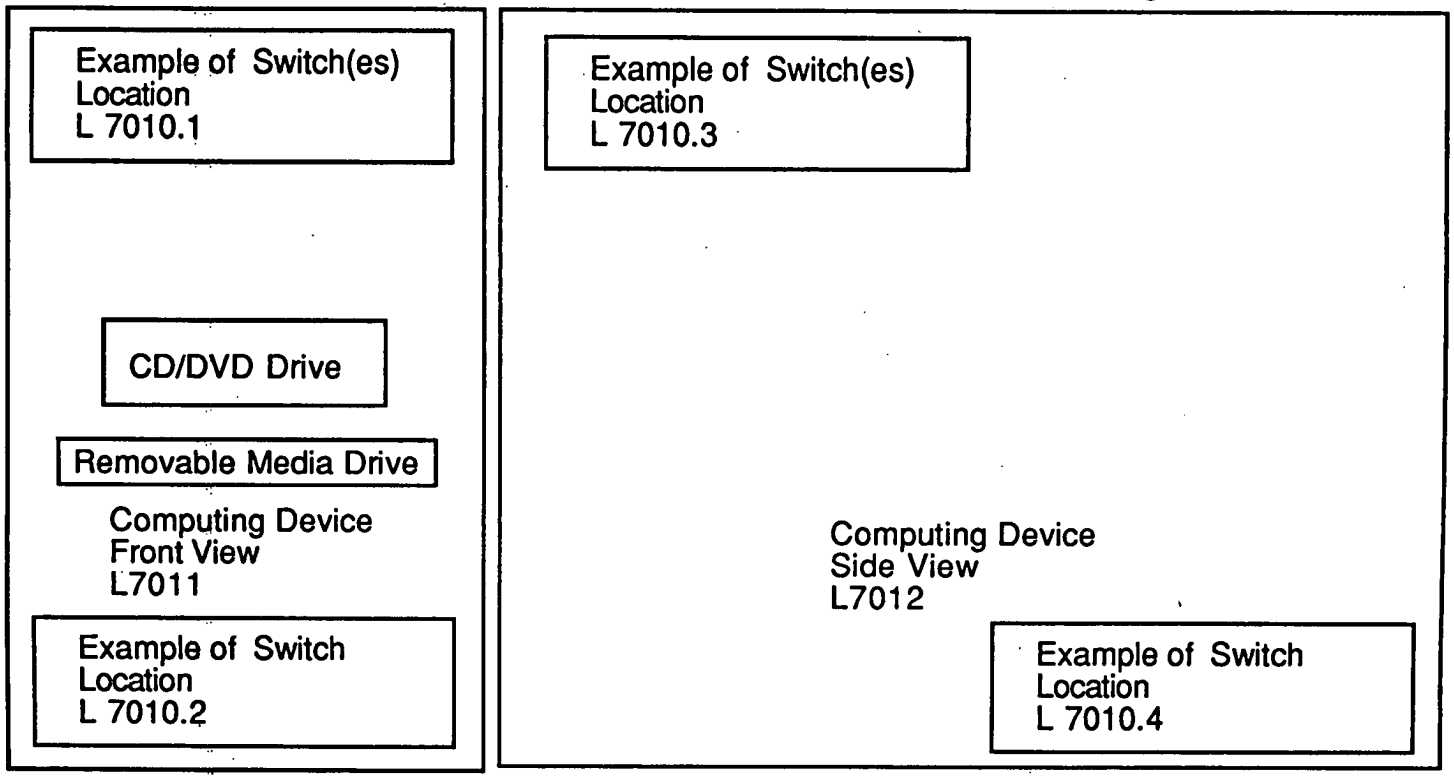

Example of Switch(es) Location L 7010.1
CD/DVD Drive
Removable Media Drive
Computing Device Front View L7011
Example of Switch Location L 7010.2
Example of Switch(es) Location L 7010.3
Computing Device Side View L7012
Example of Switch Location L 7010.4

Figure L 71

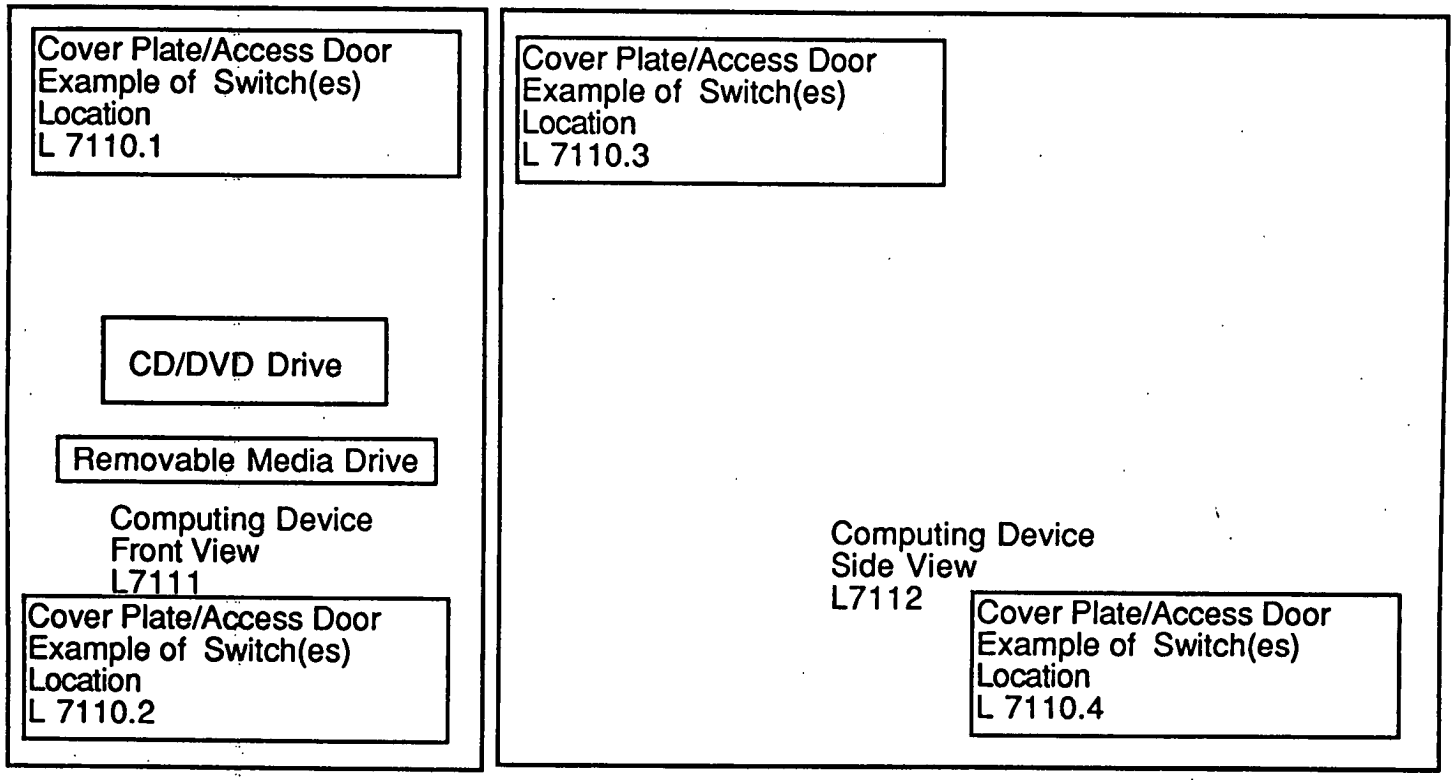

Cover Plate/Access Door
Example of Switch(es)
Location
L 7110.1
CD/DVD Drive
Removable Media Drive
Computing Device
Front View
L7111
Cover Plate/Access Door
Example of Switch(es)
Location
L 7110.2
Cover Plate/Access Door
Example of Switch(es)
Location
L 7110.3
Computing Device
Side View
L7112
Cover Plate/Access Door
Example of Switch(es)
Location
L 7110.4

Figure L 72MU Sheet 24 of 29

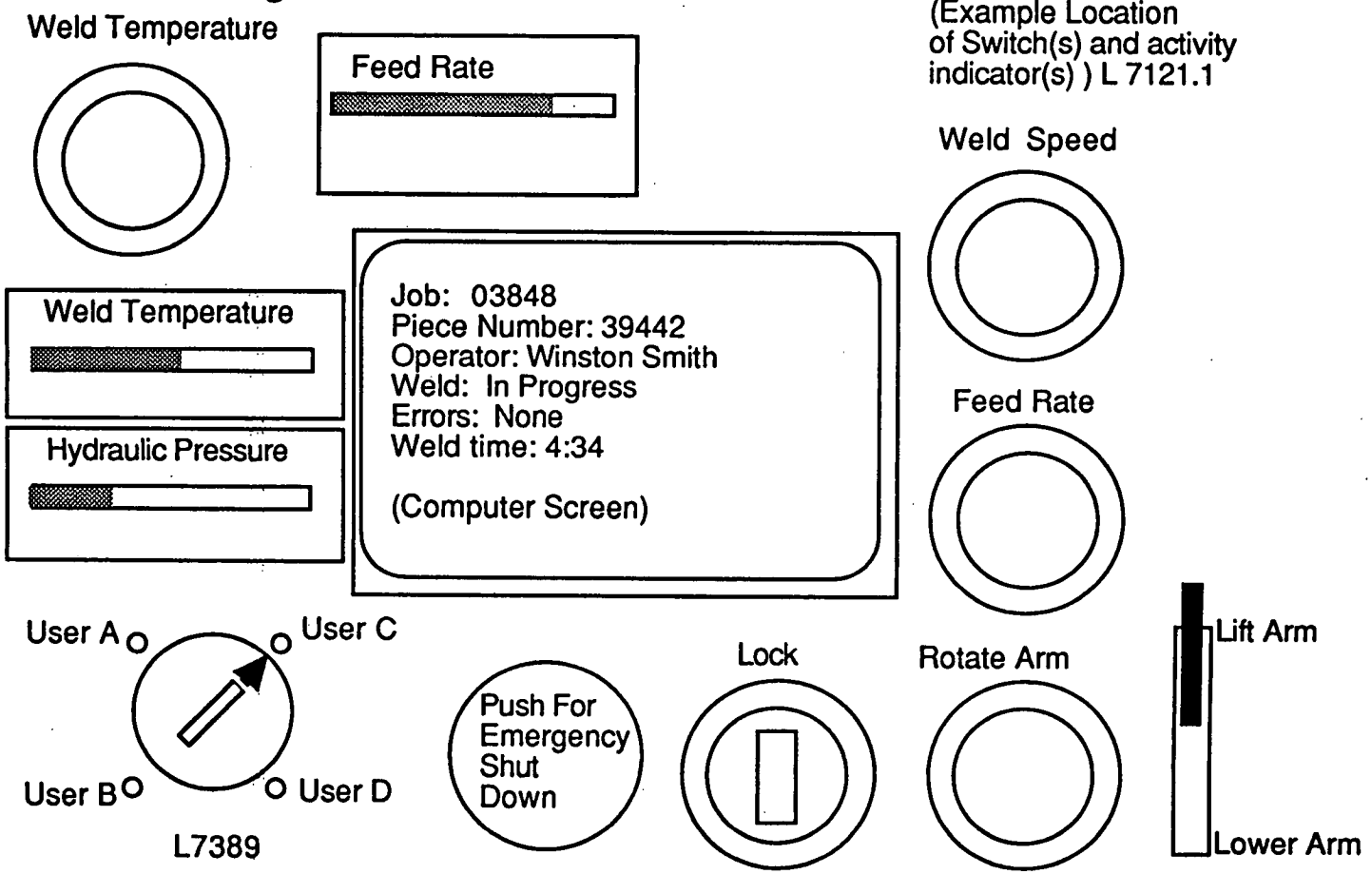
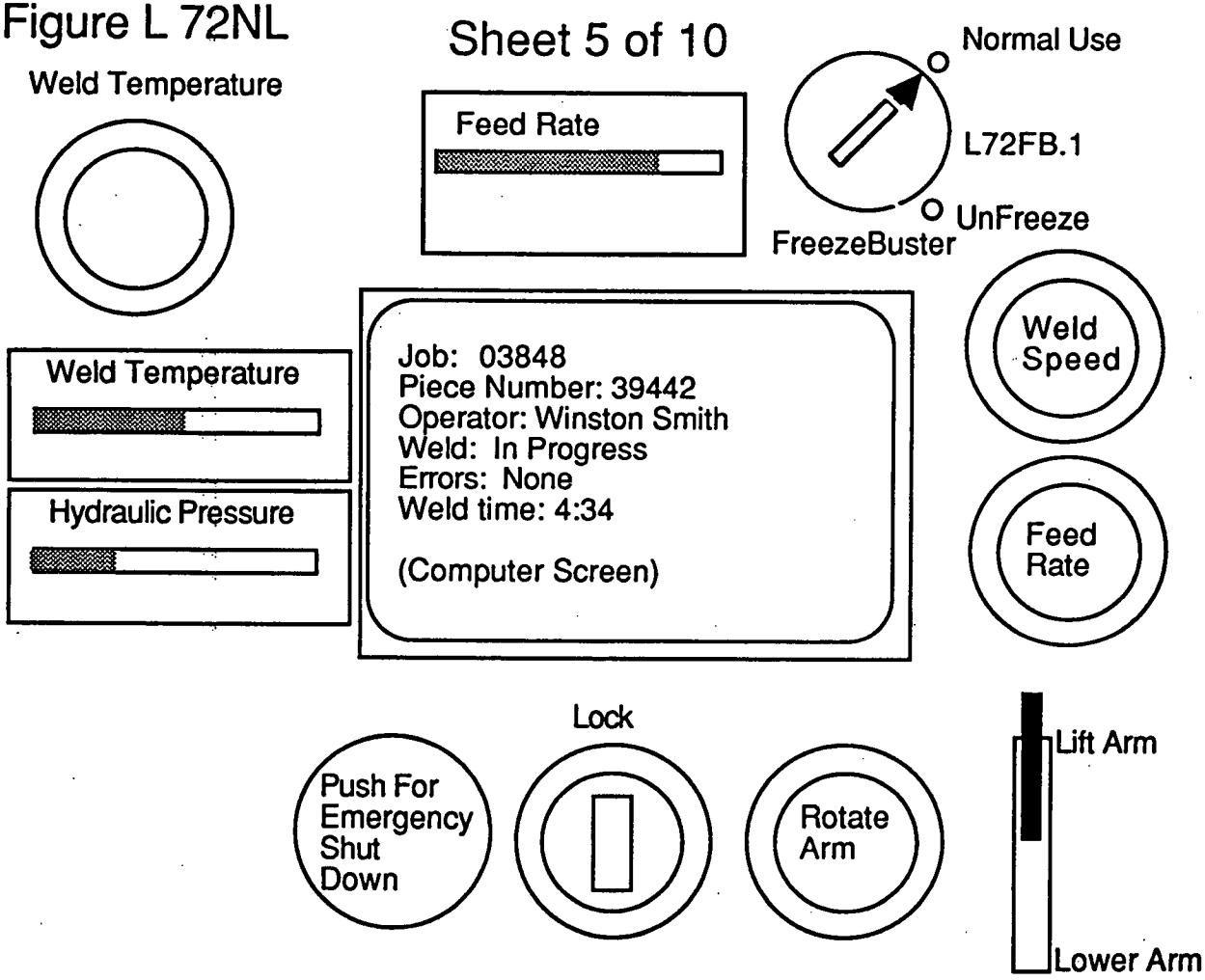


Figure L 72NL

Sheet 5 of 10



Remote SWITCH
(Example Location of Switch(s)
and activity indicator(s)) L 7121.1

Figure L 72S

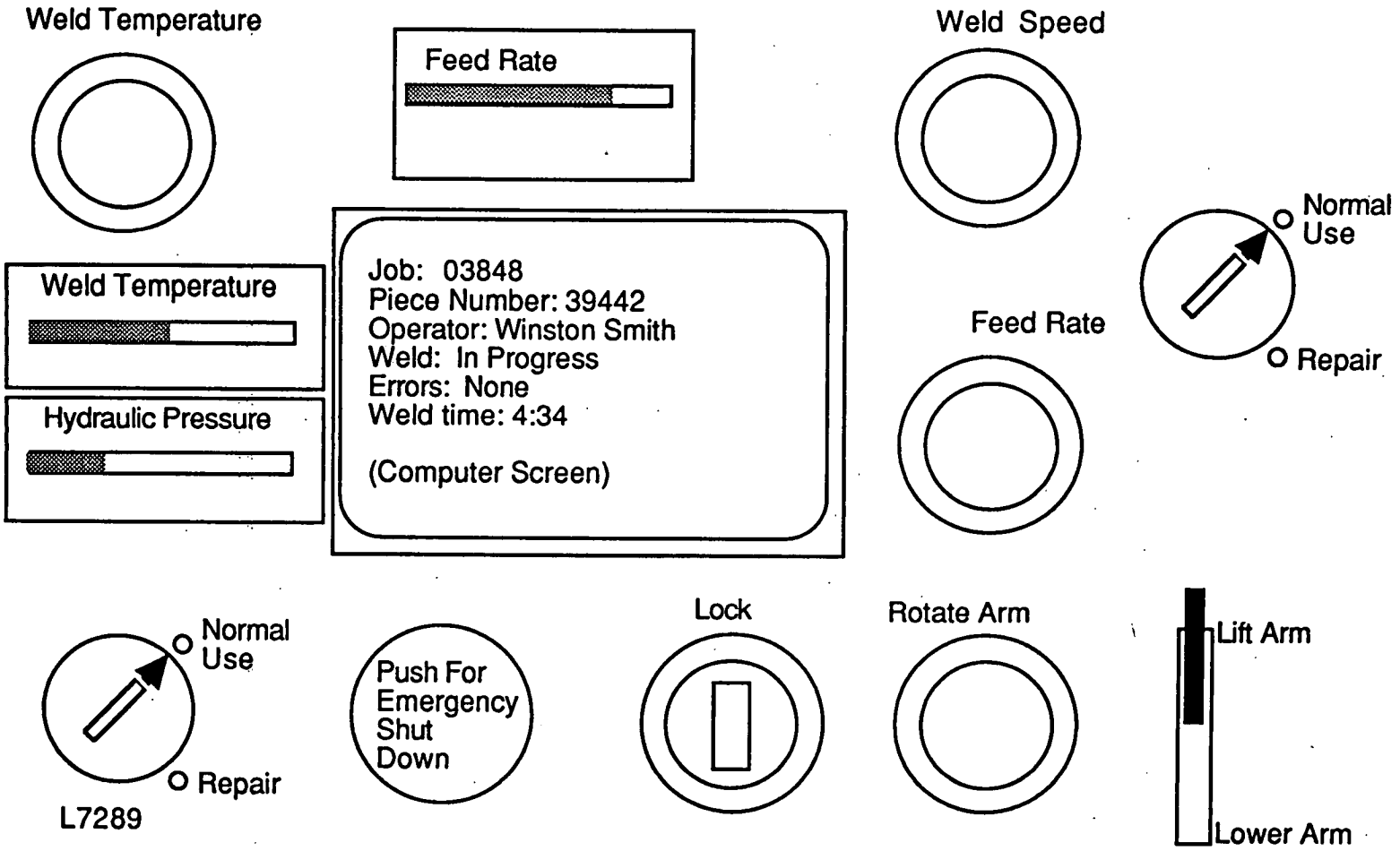


Figure L 73

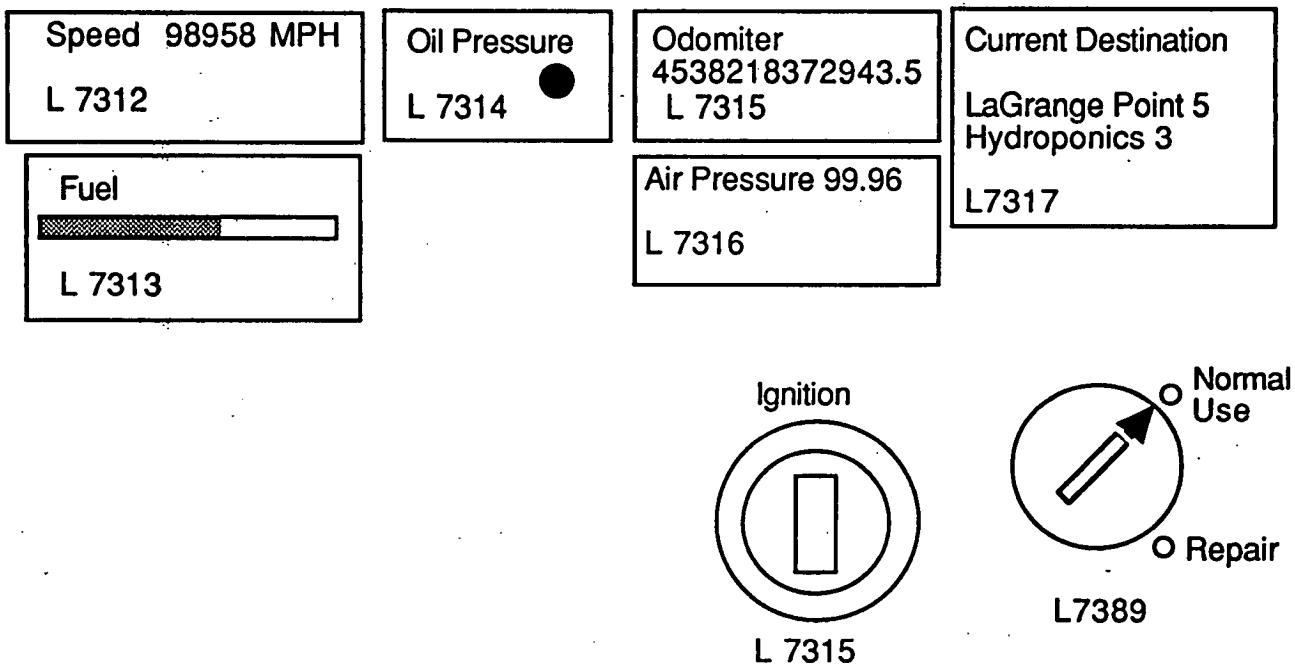

Speed 98958 MPH
L 7312
Oil Pressure
L 7314
Odomiter
4538218372943.5
L 7315
Current Destination
LaGrange Point 5
Hydroponics 3
L7317
Fuel
L 7313
Air Pressure 99.96
L 7316
Ignition
L 7315
Normal
Use
Repair
L7389

Figure L 73FB

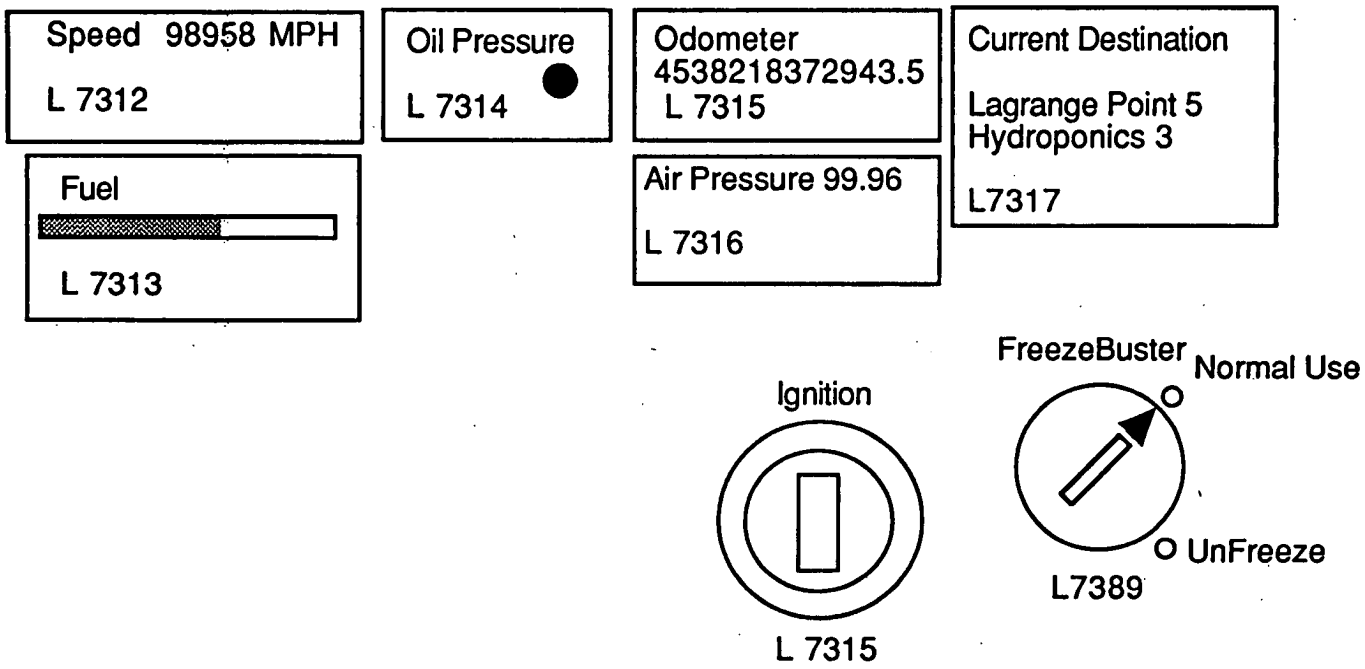
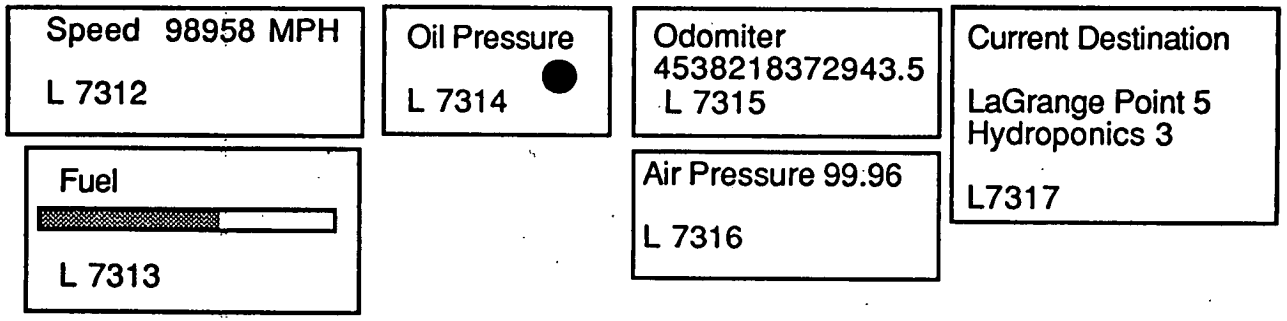
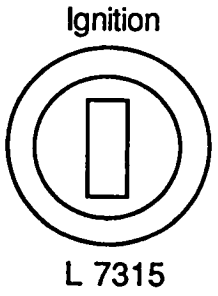


Figure L 73MU Sheet 25 of 29





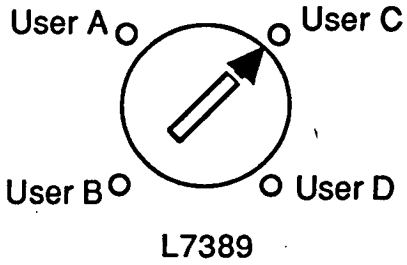


Figure L 73NL

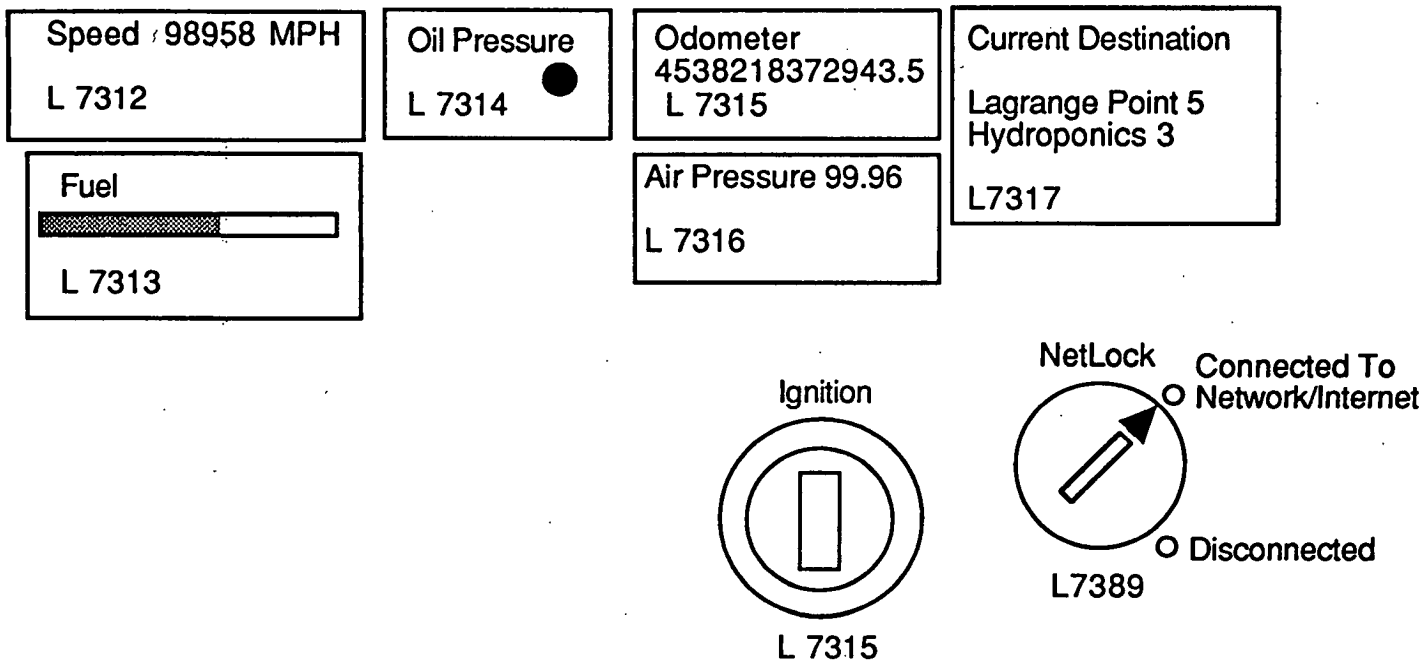


Figure L 74 Robotic Device Sheet 15 of 15

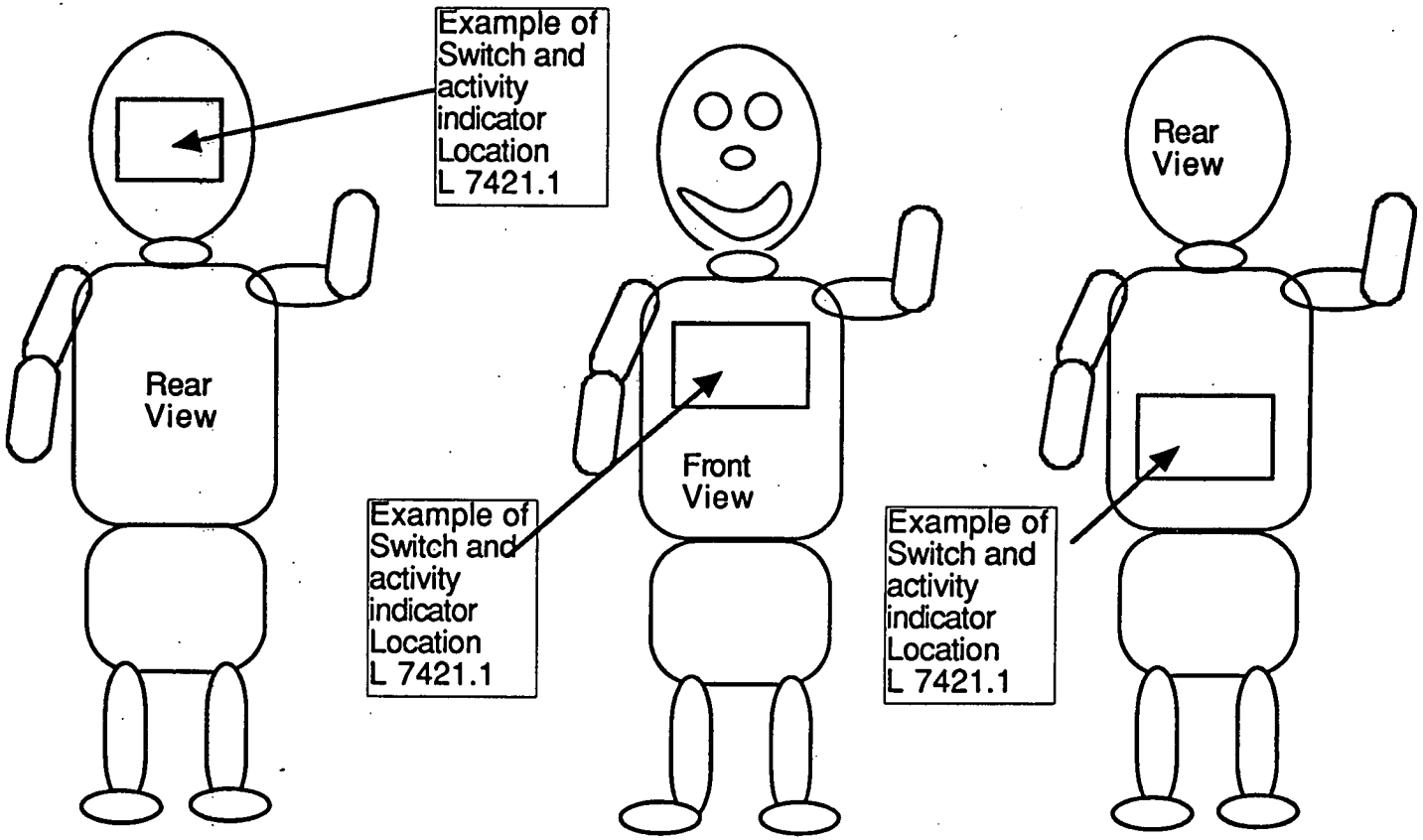


Figure L 75 Sheet 27 of 29

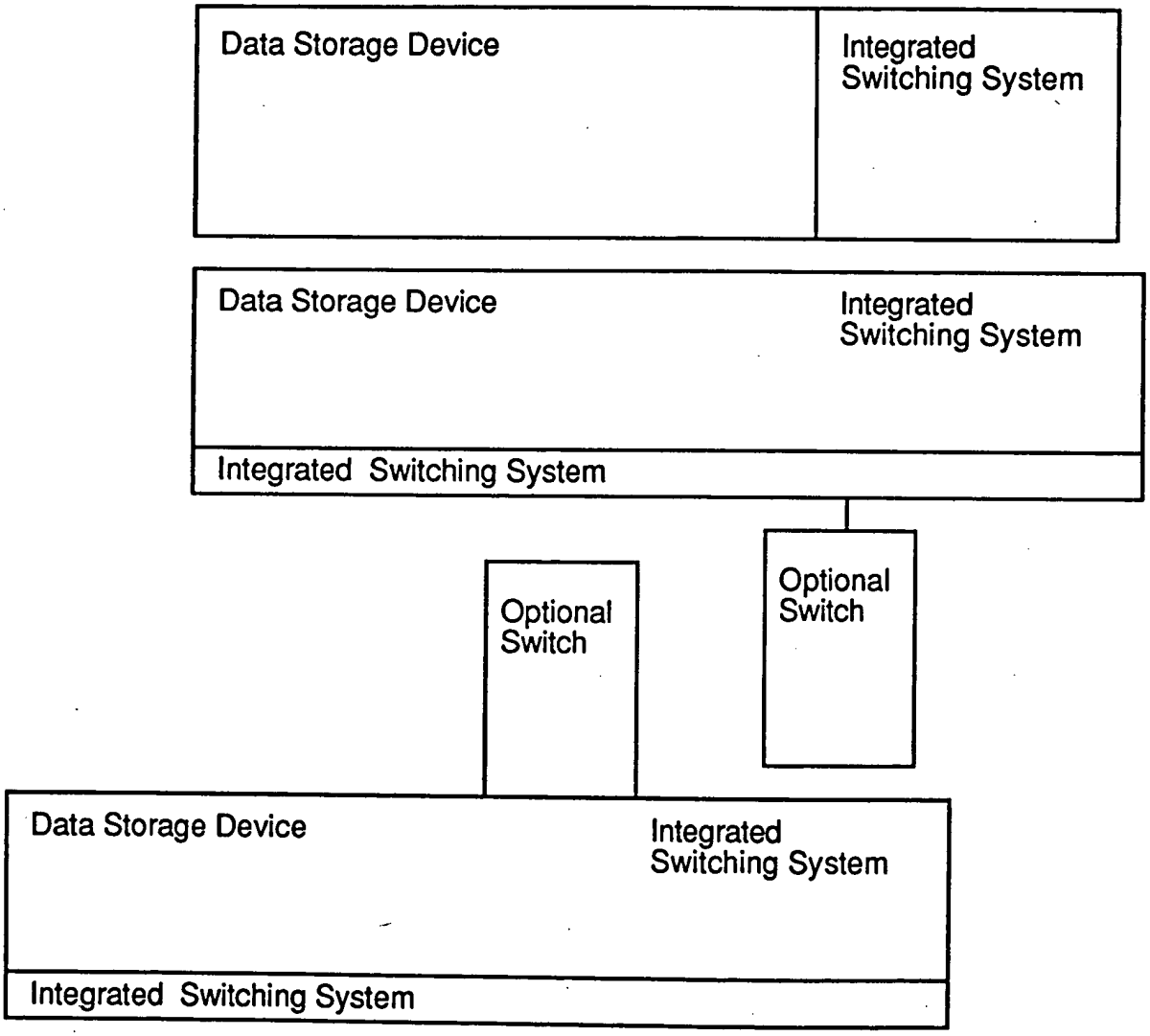


Figure L76 ROM

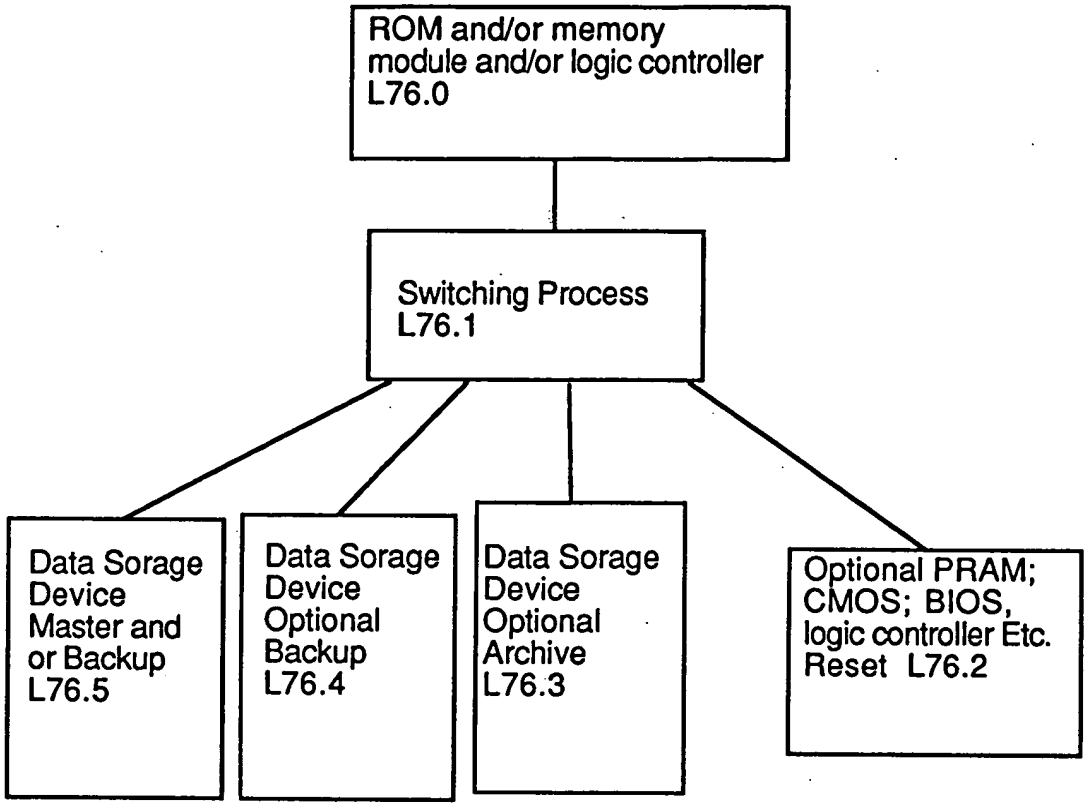


Figure L76.1 Another ROM

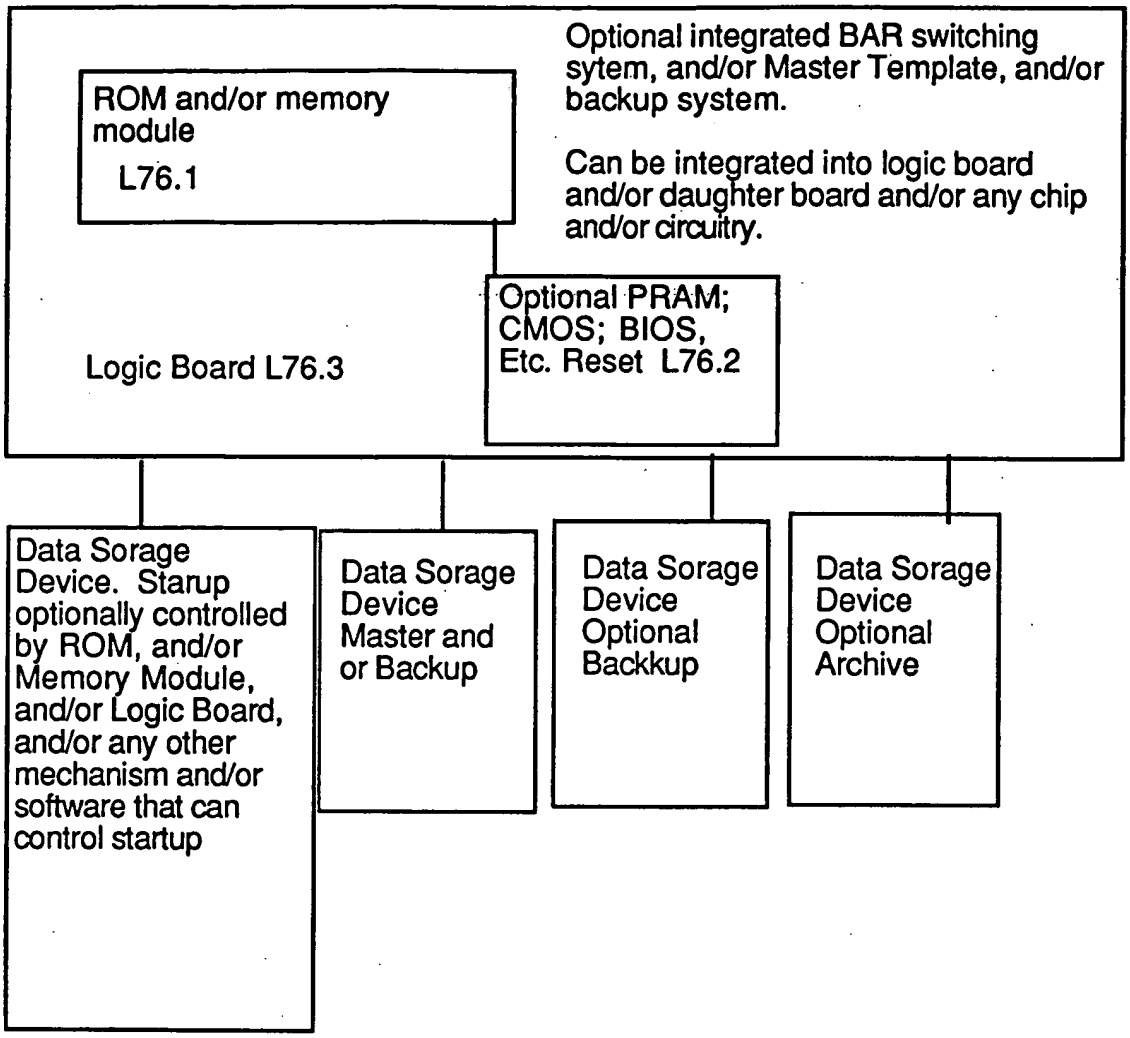


Figure L76CD

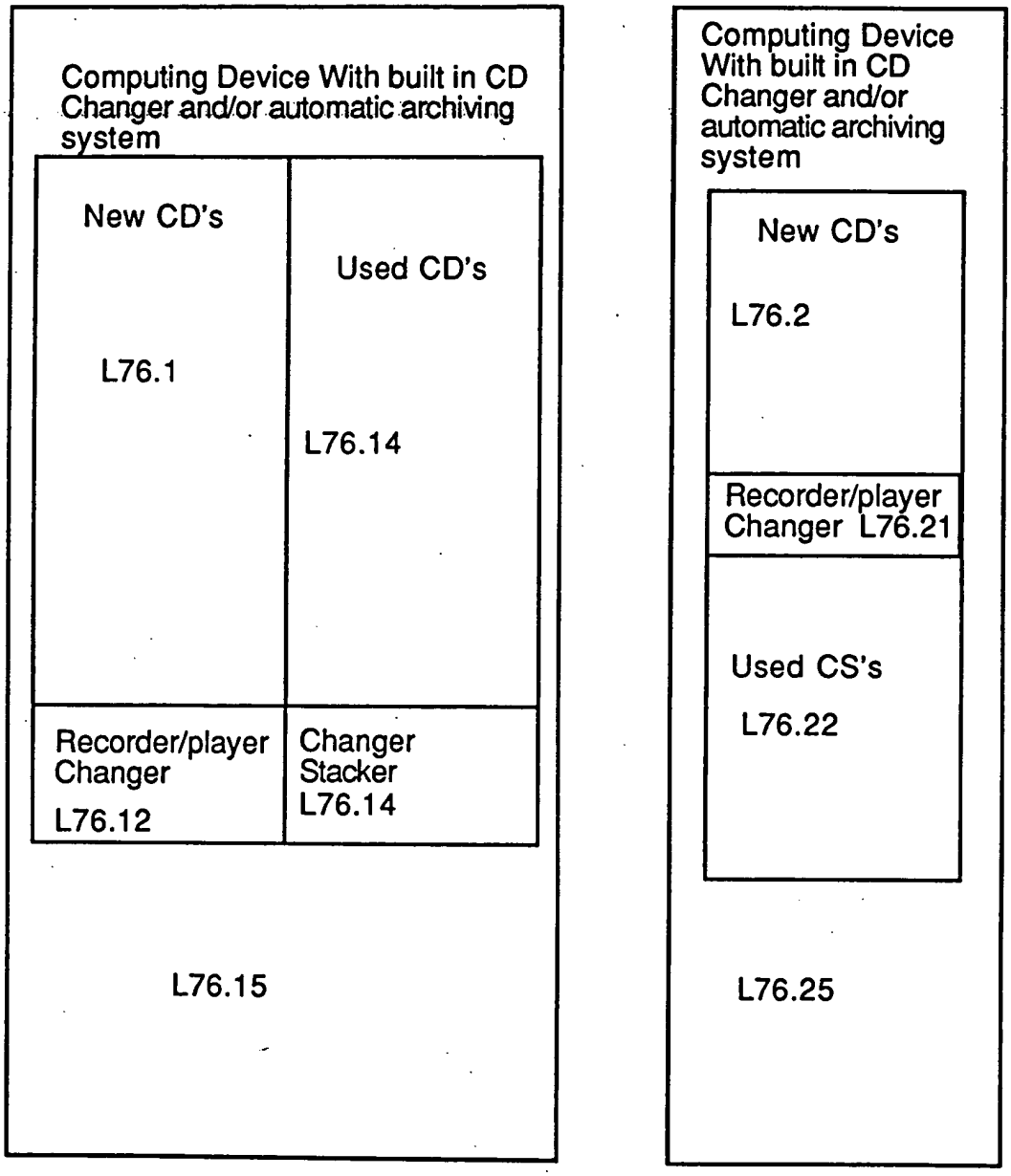


Figure L81 Sheet 28 of 29

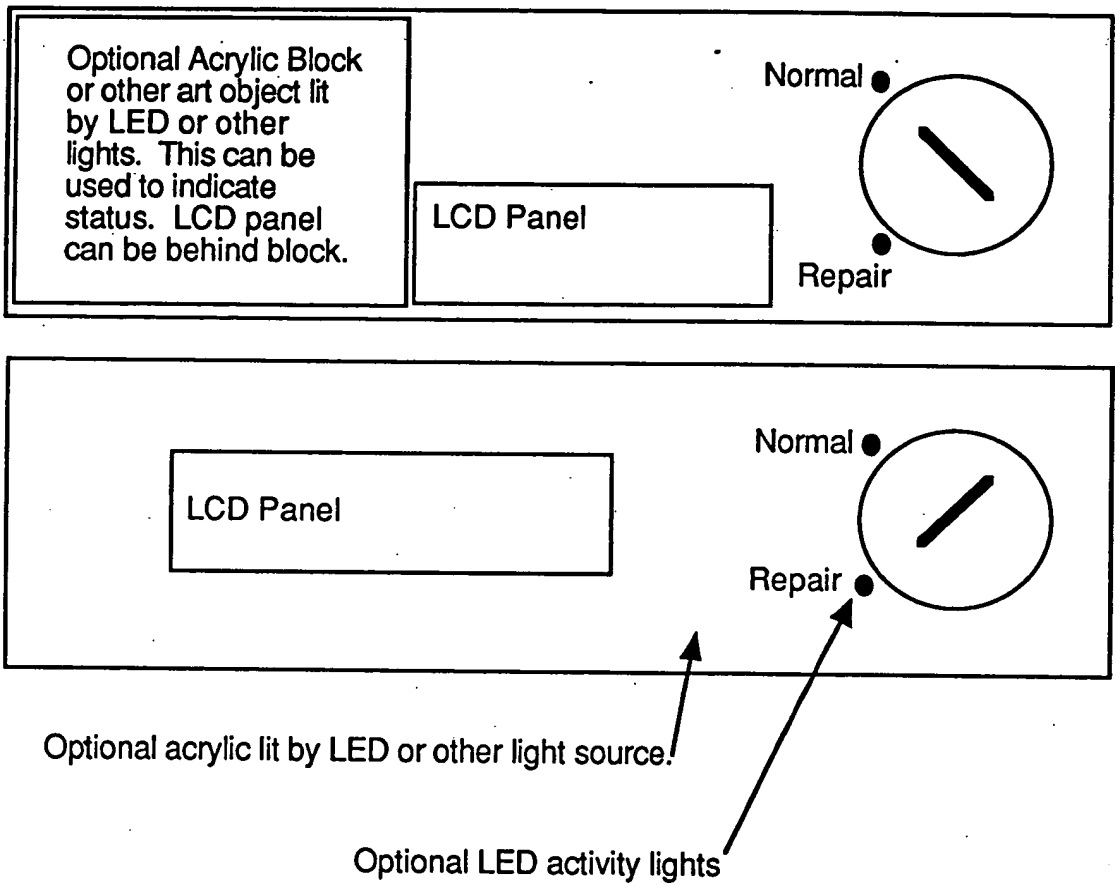


Figure L81FB Sheet 28 of 29

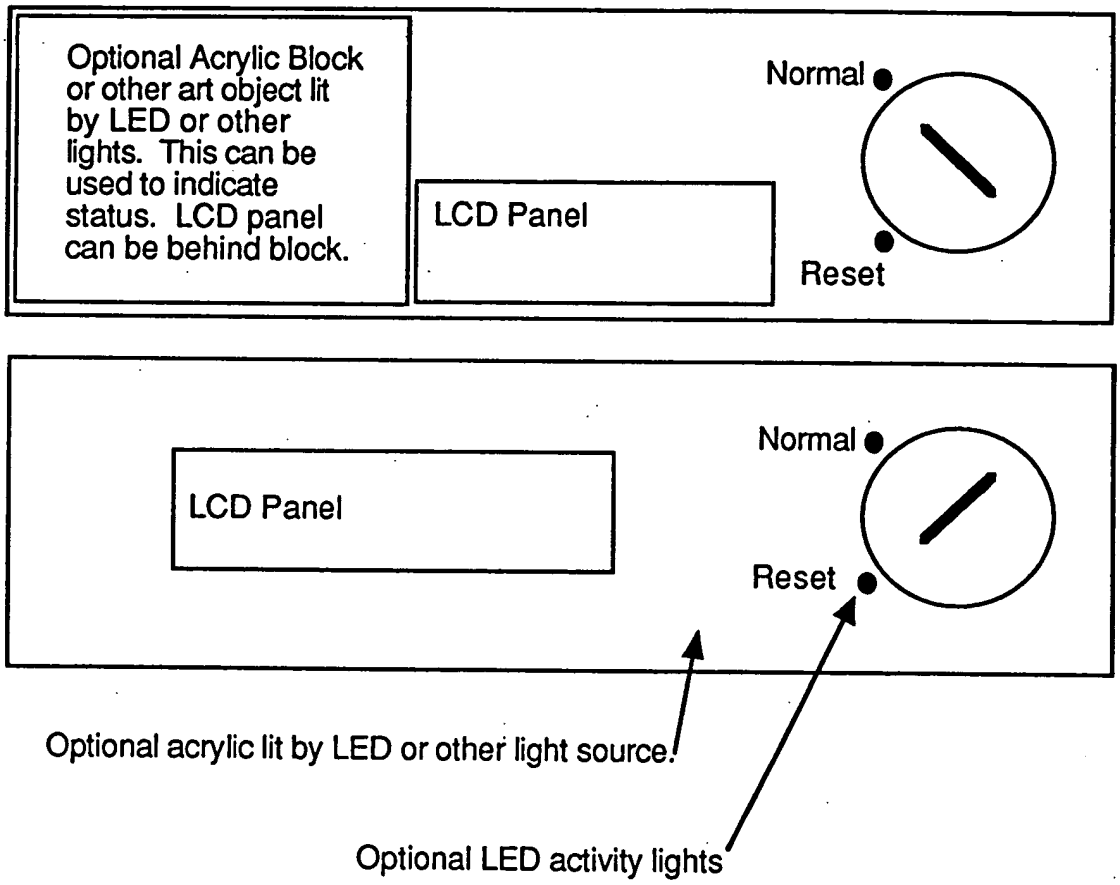


Figure L81MU Sheet 28 of 29

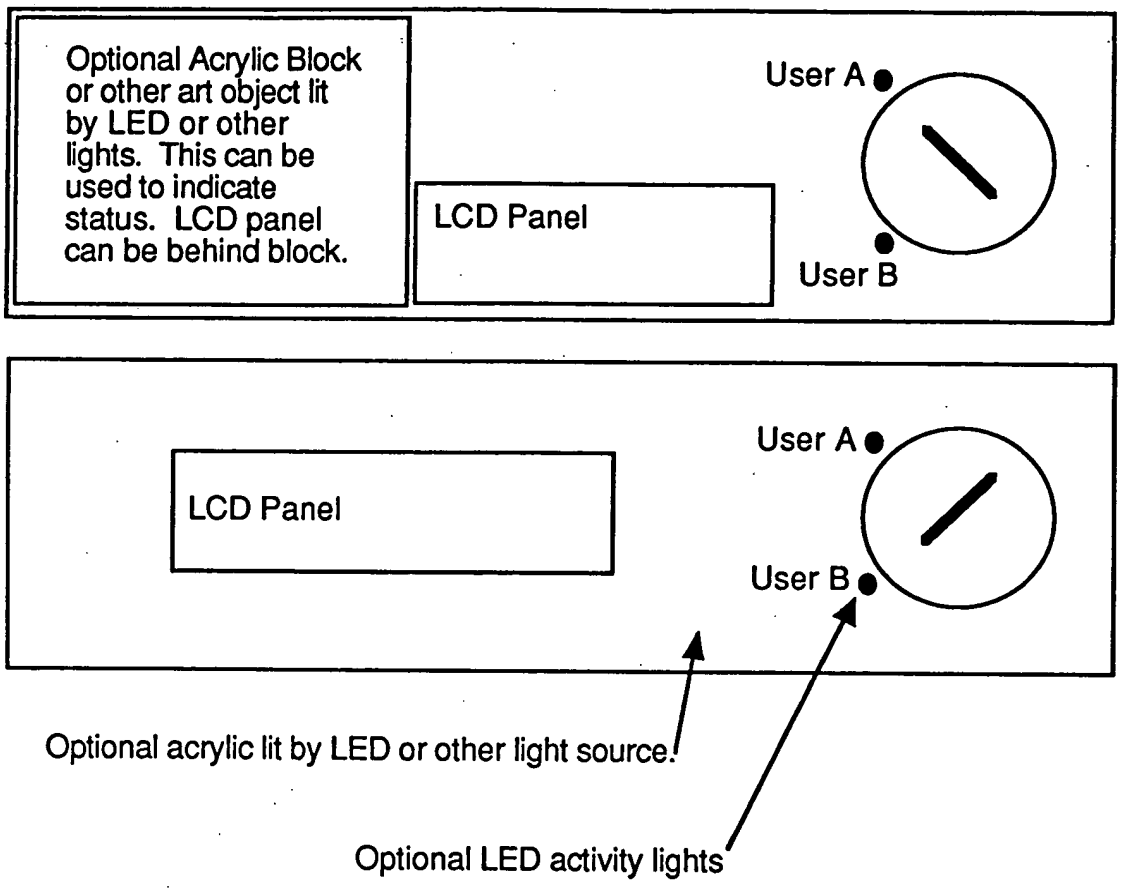


Figure L81NL Sheet 28 of 29

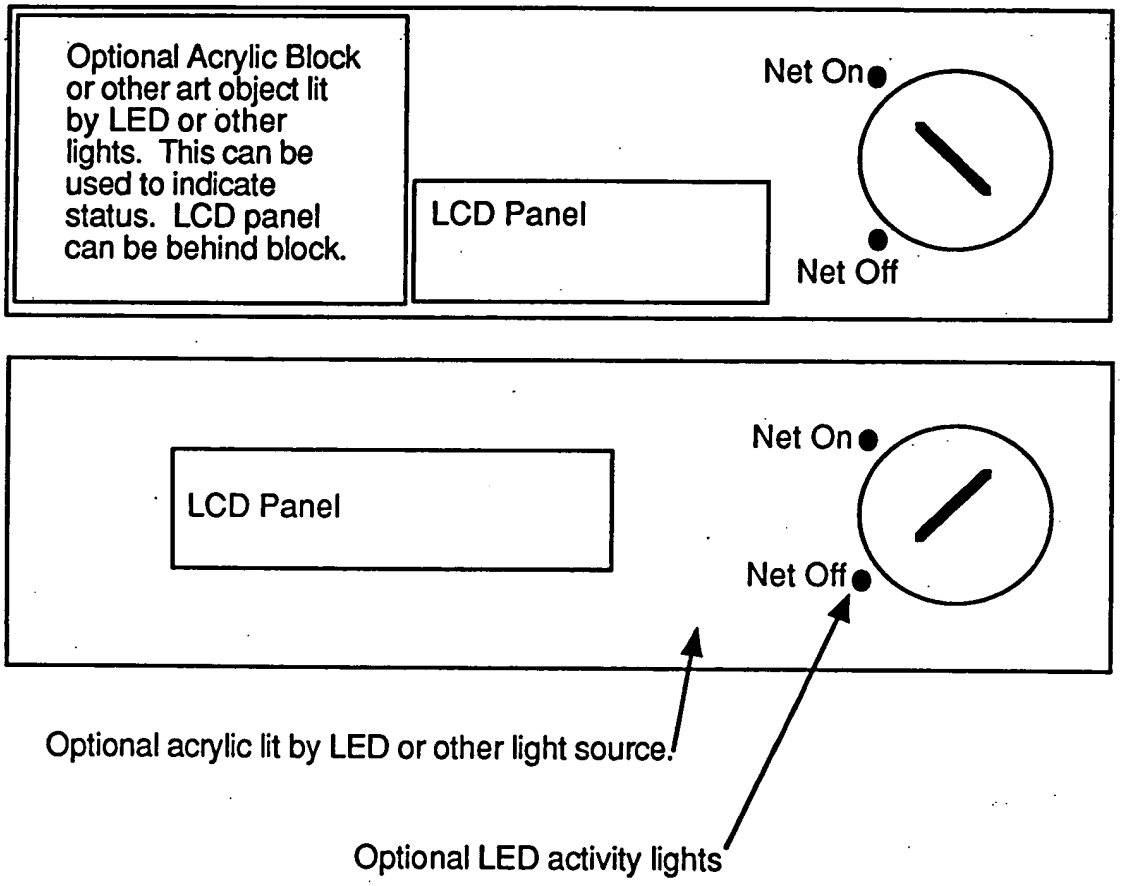
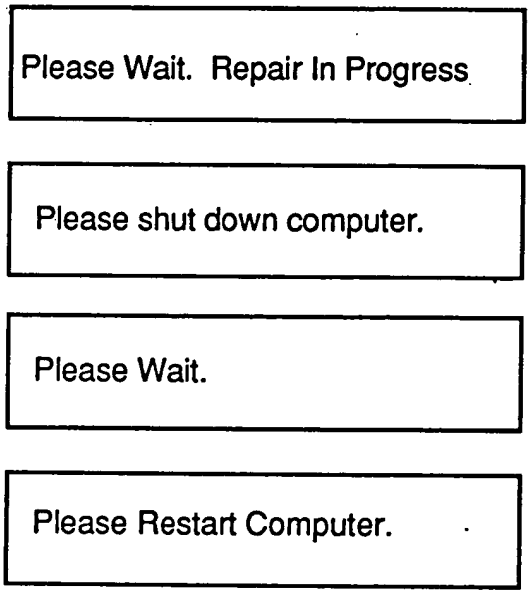
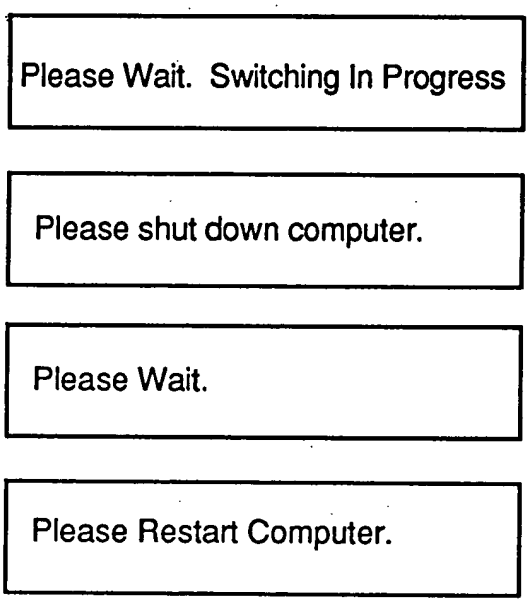


Figure L83 Examples of optional LCD screen dialog.



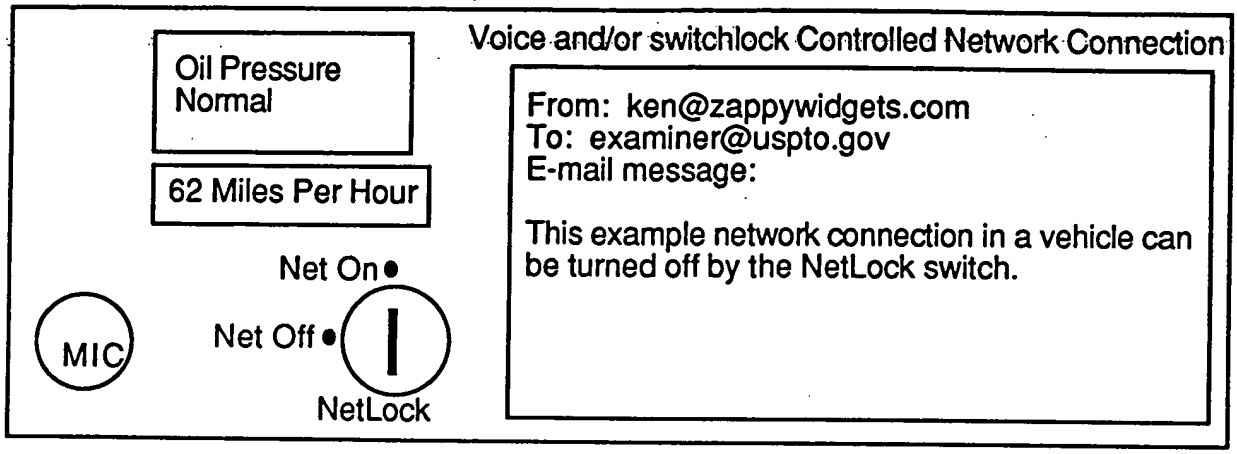
In addition to using an LCD screen, or in Lieu of using an LCD screen, dialog can be written directly to monitor, and/or communicated by other means of communication such as speech.

Figure L83MU Examples of optional LCD screen dialog.



In addition to using an LCD screen, or in Lieu of using an LCD screen, dialog can be written directly to monitor, and/or communicated by other means of communication such as speech.

Figure L84


Oil Pressure Normal
62 Miles Per Hour
Net On
Net Off
MIC
NetLock
Voice and/or switchlock Controlled Network Connection
From: ken@zappywidgets.com
To: examiner@uspto.gov
E-mail message:
This example network connection in a vehicle can be turned off by the NetLock switch.

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